STR-K890

SERVICE MANUAL

AEP Model
UK Model

Ver. 1.0 2007.01

- STR-K890 is the tuner and the amplifier section in HT-DDW890.

This receiver incorporates Dolby* Digital and Pro Logic Surround and the DTS** Digital Surround System.

* Manufactured under license from Dolby Laboratories. “Dolby”, “Pro Logic”, “Surround EX”, and the double-D symbol are trademarks of Dolby Laboratories.

** “DTS” and “DTS-ES Neo:6” are registered trademarks of DTS, Inc. “96/24” is a trademark of DTS, Inc.

SPECIFICATIONS

Amplifier section

Power Output[1)]

Models of area code AEP, UK

Stereo mode (6 ohms, 1 kHz, THD 1%)
90 W + 90 W

Surround mode[2)] (reference) (6 ohms, 1 kHz, THD 10%)

RMS output
FRONT:135 W per channel
CENTER:135 W
SURROUND:135 W per channel
SURROUND BACK: 135 W

[1)]Measured under the following conditions:

Area code	Power requirements
AEP, UK	230 V AC, 50 Hz

[2)]Reference power output for front, center, surround and surround back speakers. Depending on the sound field settings and the source, there may be no sound output.

Inputs (Analog)

SA-CD/CD/CD-R, TV, SAT, DVD, VIDEO 1, 3	Sensitivity: 800 mV Impedance: 50 kohms

Inputs (Digital)

DVD (Coaxial)	Sensitivity: – Impedance: 75 ohms
SAT, VIDEO 2/BD (Optical)	Sensitivity: – Impedance: –

Outputs (Analog)

SA-CD/CD/CD-R (OUT), VIDEO 1 (AUDIO OUT)	Voltage: 800 mV Impedance: 10 kohms
SUB WOOFER	Voltage: 2 V Impedance: 1 kohm

Reproduction frequency range:
28 – 20,000 Hz

Tone

Gain levels	±6 dB, 1 dB step

FM tuner section

Tuning range	87.5 - 108.0 MHz
Antenna	FM wire antenna
Antenna terminals	75 ohms, unbalanced
Intermediate frequency	10.7 MHz

AM tuner section

Tuning range

Models of area code AEP, UK

With 9-kHz tuning scale:
531 – 1,602 kHz

Antenna	Loop antenna
Intermediate frequency	450 kHz

Video section

Inputs/Outputs

Video:	1 Vp-p, 75 ohms
COMPONENT VIDEO:	
	Y: 1 Vp-p, 75 ohms
	P_B/C_B: 0.7 Vp-p, 75 ohms
	P_R/C_R: 0.7 Vp-p, 75 ohms
	80 MHz HD Pass Through

— Continued on next page —

MULTI CHANNEL AV RECEIVER

9-887-520-01
2007A16-1
© 2007.01

Sony Corporation
Home Audio Division
Published by Sony Techno Create Corporation

SONY

General

Power requirements

Area code	Power requirements
AEP, UK	230 V AC, 50/60 Hz

Power requirements (DIGITAL MEDIA PORT)
DC OUT: 5V, 700 mA

Power consumption

Area code	Power consumption
AEP, UK	200 W

Power consumption (during standby mode)
0.3 W

Dimensions (width/height/depth) (Approx.)
430 × 157.5 × 310 mm including projecting parts and controls

Mass (Approx.) 7.6 kg

Design and specifications are subject to change without notice.

Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

UNLEADED SOLDER

Boards requiring use of unleaded solder are printed with the lead-free mark (LF) indicating the solder contains no lead.
(Caution: Some printed circuit boards may not come printed with the lead free mark due to their particular size)

: LEAD FREE MARK

Unleaded solder has the following characteristics.

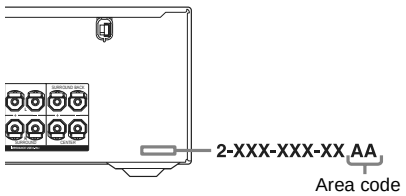
- Unleaded solder melts at a temperature about 40 °C higher than ordinary solder.
  Ordinary soldering irons can be used but the iron tip has to be applied to the solder joint for a slightly longer time.
  Soldering irons using a temperature regulator should be set to about 350 °C.
  Caution: The printed pattern (copper foil) may peel away if the heated tip is applied for too long, so be careful!
- Strong viscosity
  Unleaded solder is more viscou-s (sticky, less prone to flow) than ordinary solder so use caution not to let solder bridges occur such as on IC pins, etc.
- Usable with ordinary solder
  It is best to use only unleaded solder but unleaded solder may also be added to ordinary solder.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

About area codes

The area code of the receiver you purchased is shown on the lower right portion of the rear panel (see the illustration below).



Any differences in operation, according to the area code, are clearly indicated in the text, for example, “Models of area code AA only”.

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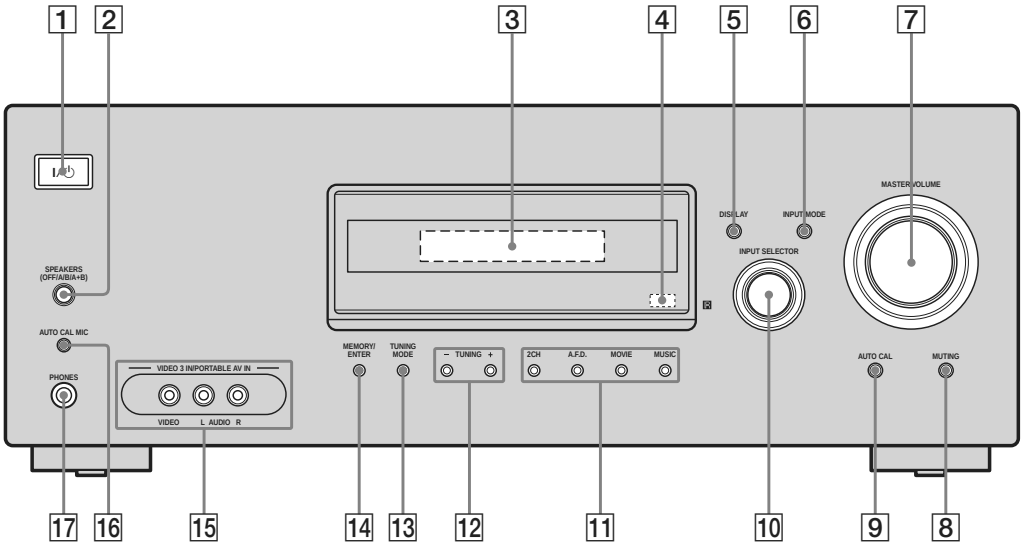
SECTION 1
GENERAL

This section is extracted from instruction manual.

Receiver

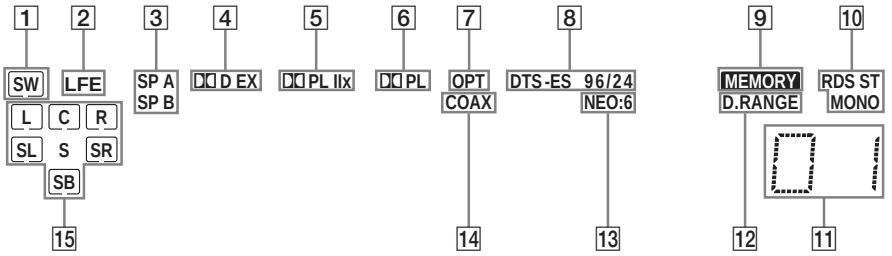
Front panel



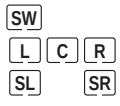
Name	Function
1 **I/⏻ (on/standby)**	Press to turn the receiver on or off.
2 **SPEAKERS (OFF/A/B/A+B)**	Press to select the speaker system.
3 **Display**	The current status of the selected component or a list of selectable items appears here.
4 **Remote sensor**	Receives signals from remote commander.
5 **DISPLAY**	Press to select information displayed on the display.
6 **INPUT MODE**	Press to select the input mode when the same components are connected to both digital and analog jacks.
7 **MASTER VOLUME**	Turn to adjust the volume level of all speakers at the same time.
8 **MUTING**	Press to mute the sound.
9 **AUTO CAL**	Press to activate the Auto Calibration function.

Name	Function
10 **INPUT SELECTOR**	Turn to select the input source to playback.
11 **2CH**	Press to select a sound field.
A.F.D.	
MOVIE	
MUSIC	
12 **TUNING +/–**	Press to scan a station.
13 **TUNING MODE**	Press to select the tuning mode.
14 **MEMORY/ ENTER**	Press to store a station or enter the selection when selecting the settings.
15 **VIDEO 3 IN/ PORTABLE AV IN jacks**	Connects to a camcorder or video game.
16 **AUTO CAL MIC jack**	Connects to the supplied optimizer microphone for the Auto Calibration function.
17 **PHONES jack**	Connects to a headphone.

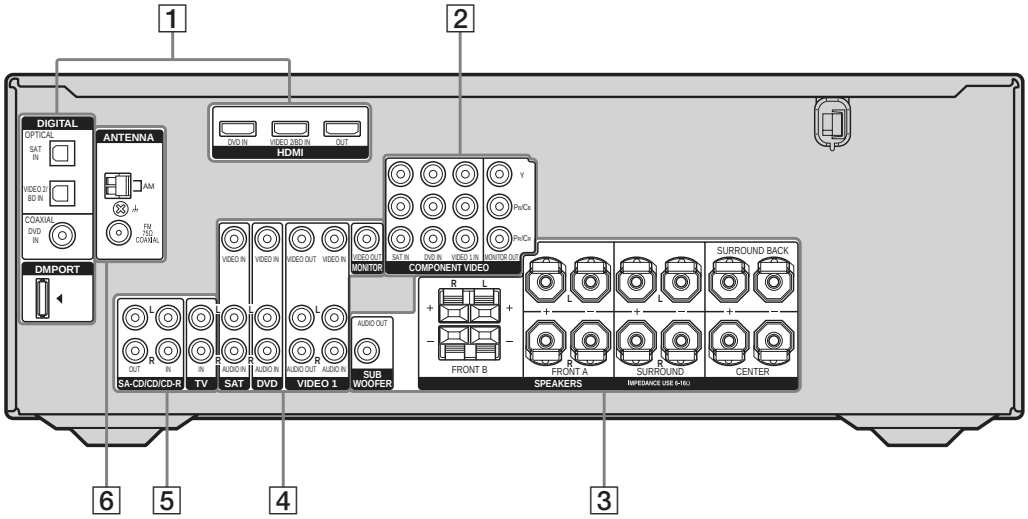
About the indicators on the display



Name	Function
1 **SW**	Lights up when the audio signal is output from the SUB WOOFER jack.
2 **LFE**	Lights up when the disc being played back contains an LFE (Low Frequency Effect) channel and the LFE channel signal is actually being reproduced.
3 **SP A/SP B**	Lights up according to the speaker system used. However, these indicators do not light up if the speaker output is turned off or if a headphone is connected.
4 **D D (EX)**	Lights up when the receiver is decoding Dolby Digital signals. "D D EX" lights up when the receiver is decoding Dolby Digital Surround EX signals. **Note** When playing a Dolby Digital format disc, be sure that you have made digital connections and that INPUT MODE is not set to "ANALOG".
5 **D D PL II (x)**	Lights up when the Pro Logic II Movie/Music/Game decoder is activated. "D D PL IIx" lights up when the Pro Logic IIx Movie/Music/Game decoder is activated. **Note** Dolby Pro Logic IIx decoding does not function for DTS format signals or for signals with a sampling frequency of more than 48 kHz.
6 **D D PL**	Lights up when the receiver applies Pro Logic processing to 2 channel signals in order to output the center and surround channel signals.
7 **OPT**	Lights up when VIDEO 2 input is selected. However, "UNLOCK" appears on the display if no digital signal is input through the OPTICAL jack. "OPT" also lights up when SAT input is selected if – INPUT MODE is set to "AUTO IN" and the source signal is a digital signal being input through the OPTICAL jack. – INPUT MODE is set to "OPT IN".

Name	Function
8 **DTS (-ES)/ (96/24)**	Lights up when the receiver is decoding DTS signals. "DTS-ES" lights up when the receiver is decoding DTS-ES signals. "DTS 96/24" lights up when the receiver is decoding DTS 96 kHz/24 bit signals. **Note** When playing a DTS format disc, be sure that you have made digital connections and that INPUT MODE is not set to "ANALOG".
9 **MEMORY**	Lights up when a memory function, such as Preset Memory, etc., is activated.
10 **Tuner indicators**	Lights up when using the receiver to tune in radio stations, etc.
11 **Preset station indicators**	Lights up when using the receiver to tune in preset radio stations. For details on presetting radio stations.
12 **D.RANGE**	Lights up when dynamic range compression is activated.
13 **NEO:6**	Lights up when DTS Neo:6 Cinema/Music decoder is activated.
14 **COAX**	Lights up when INPUT MODE is set to "AUTO IN" and the source signal is a digital signal being input through the COAXIAL jack, or when INPUT MODE is set to "COAX IN".
15 **Playback channel indicators**	The letters (L, C, R, etc.) indicate the channels being played back. The boxes around the letters vary to show how the receiver downmixes the source sound. **L** Front Left **R** Front Right **C** Center (monaural) **SL** Surround Left **SR** Surround Right **S** Surround (monaural or the surround components obtained by Pro Logic processing) **SB** Surround Back (the surround back components obtained by 6.1 channel decoding) **Example:** Recording format (Front/Surround): 3/2.1 Sound Field: A.F.D. AUTO 

Rear panel



1 DIGITAL INPUT/OUTPUT section

	OPTICAL IN jacks	Connects to a DVD player, etc. The COAXIAL jack provides a better quality of loud sound.
	COAXIAL IN jacks	
	HDMI IN/ OUT jacks*	Connects to a DVD player, or a Blu-ray disc player. The image and the sound are output to a TV or a projector.
	DMPORT jack	Connects to a DIGITAL MEDIA PORT adapter.

2 COMPONENT VIDEO INPUT/ OUTPUT section

Green Blue Red	COMPONENT VIDEO INPUT/ OUTPUT jacks*	Connects to a DVD player, TV, satellite tuner, etc. You can enjoy high quality image.

3 SPEAKERS section

+ –		Connects to speakers.
+ –		
		Connects to sub woofer.

4 VIDEO/AUDIO INPUT/OUTPUT section

White (L) Red (R)	AUDIO IN/ OUT jacks	Connects to the video and audio jacks of a VCR, DVD player, etc.
Yellow	VIDEO IN/ OUT jacks*	

5 AUDIO INPUT/OUTPUT section

White (L) Red (R)	AUDIO IN/ OUT jacks	Connects to a Super Audio CD player, CD recorder, etc.

6 ANTENNA section

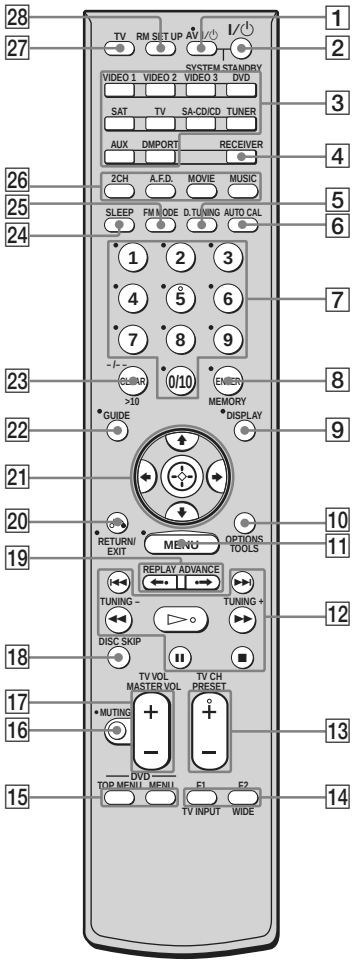
	FM ANTENNA jack	Connects to the FM wire antenna supplied with this receiver.
	AM ANTENNA terminals	Connects to the AM loop antenna supplied with this receiver.

* You can watch the selected input image when you connect the HDMI OUT or MONITOR OUT jack to a TV.

Remote commander

You can use the supplied remote to operate the receiver and to control the Sony audio/video components that the remote is assigned to operate.
You can also program the remote to control non-Sony audio/video components. For details, see “Programming the remote”.

RM-AAP017



Name	Function
1 **AV I/⏻ (on/standby)**	Press to turn on or off the audio/video components that the remote is programmed to operate. To turn the TV on or off, press TV (27) and then press AV I/⏻. If you press I/⏻ (2) at the same time, it will turn off the receiver and other components (SYSTEM STANDBY). **Note** The function of the AV I/⏻ switch changes automatically each time you press the input buttons (3).
2 **I/⏻ (on/standby)**	Press to turn the receiver on or off. To turn off all components, press I/⏻ and AV I/⏻ (1) at the same time (SYSTEM STANDBY).

Name	Function
3 **Input buttons**	Press one of the buttons to select the component you want to use. When you press any of the input buttons, the receiver turns on. The buttons are factory assigned to control Sony components as follows. You can program the remote to control non-Sony components following the steps in “Programming the remote”

Button	Assigned Sony component
VIDEO 1	VCR (VTR mode 3)
VIDEO 2	VCR (VTR mode 2)
VIDEO 3	VCR (VTR mode 1)
DVD	DVD player
SAT	Satellite tuner
TV	TV
SA-CD/CD	Super Audio CD/ CD player
TUNER	Built-in tuner
AUX	Not assigned
DMPORT	DIGITAL MEDIA PORT adapter

4 **RECEIVER**	Press to activate the receiver operation.
5 **D. TUNING**	Press to enter direct tuning mode.
6 **AUTO CAL**	Press to activate the Auto Calibration function.
7 **Numeric buttons (number 5[a])**	Press to – preset/tune to preset stations. – select track numbers of the CD player, VCD player, LD player, DVD player, MD deck, DAT deck, or tape deck. Press 0/10 to select track number 10. – select channel numbers of the VCR, satellite tuner, Blu-ray disc recorder, PSX, DVD/VHS COMBO, or DVD/HDD COMBO. Press TV (27) and then press the numeric buttons to select the TV channels.
8 **ENTER**	Press to enter the value after selecting a channel, disc or track using the numeric buttons of the VCR, CD player, VCD player, LD player, MD deck, DAT deck, tape deck, satellite tuner, Blu-ray disc recorder, or PSX. To enter the value of Sony TV, press TV (27) and then press ENTER.
MEMORY	Press to store a station during tuner operation.
9 **DISPLAY**	Press to select information displayed on the TV screen of the VCR, VCD player, LD player, DVD player, CD player, MD deck, Blu-ray disc recorder, PSX, satellite tuner, DVD/VHS COMBO, or DVD/HDD COMBO. To select information of Sony TV, press TV (27) and then press DISPLAY.

Name	Function
10 **OPTIONS TOOLS**	Press to display and select items from the option menus for DVD player or DVD/VHS COMBO. To display the options of Sony TV, press TV (27) and then press OPTIONS TOOLS.
11 **MENU**	Press to display the menus of the receiver, VCR, DVD player, satellite tuner, Blu-ray disc recorder, PSX, DVD/VHS COMBO, or DVD/HDD COMBO on the TV screen. Then, use ↑/↓/←/→ and ⊕ to perform menu operations. To display the menus of Sony TV, press TV (27) and then press MENU.
12 **I◄◄ /►►I** b)	Press to skip tracks of the VCR, CD player, VCD player, LD player, DVD player, MD deck, DAT deck, tape deck, Blu-ray disc recorder, PSX, DVD/VHS COMBO, or DVD/HDD COMBO.
◄◄/►► b)	Press to – search tracks in the forward/backward direction of the CD player, VCD player, DVD player, LD player, MD deck, Blu-ray disc recorder, PSX, DVD/VHS COMBO, or DVD/HDD COMBO. – fast forward/rewind of the VCR, DAT deck, or tape deck.
▷ a)b)	Press to start playback of the VCR, CD player, VCD player, LD player, DVD player, MD deck, DAT deck, tape deck, Blu-ray disc recorder, PSX, DVD/VHS COMBO, or DVD/HDD COMBO.
II b)	Press to pause playback or recording of the VCR, CD player, VCD player, LD player, DVD player, MD deck, DAT deck, tape deck, Blu-ray disc recorder, PSX, DVD/VHS COMBO, or DVD/HDD COMBO. (Also starts recording with components in recording standby.)
■ b)	Press to stop playback of the VCR, CD player, VCD player, LD player, DVD player, MD deck, DAT deck, tape deck, Blu-ray disc recorder, PSX, DVD/VHS COMBO, or DVD/HDD COMBO.
TUNING +/–	Press to scan a station.

Name	Function
13	Press TV (27) and then press TV CH +/– to select preset TV channels.
PRESET + a)**/–**	Press to – select preset stations. – select preset channels of the VCR, satellite tuner, Blu-ray disc recorder, DVD player, DVD/VHS COMBO, or DVD/HDD COMBO.
14 **F1, F2**	Press TV (27) and then press F1 or F2 to select a component. DVD/HDD COMBO F1: HDD F2: DVD DVD/VHS COMBO F1: DVD F2: VHS
TV INPUT	Press TV (27) and then press TV INPUT to select the input signal (TV input or video input).
WIDE	Press TV (27) and then press WIDE to select the wide picture mode.
15 **DVD TOP MENU**	Press to display the menu or on-screen guide of the DVD player on the TV screen. Then, use ↑/↓/←/→ and ⊕ to perform menu operations.
DVD MENU	Press to display the menu of the DVD player on the TV screen. Then, use ↑/↓/←/→ and ⊕ to perform menu operations.
16 **MUTING**	Press to mute the sound. To mute the sound of the TV, press TV (27) and then press MUTING.
17 **TV VOL +/–**	Press TV (27) and then press TV VOL +/– to adjust the TV volume level.
MASTER VOL +/–	Press to adjust the volume level of all speakers at the same time.
18 **DISC SKIP**	Press to skip disc of the CD player, VCD player, DVD player, or MD deck (multi-disc changer only).
19 **REPLAY ←·/ ADVANCE ·→**	Press to replay the previous scene or fast forward the current scene of the DVD player, Blu-ray disc recorder, DVD/VHS COMBO, or DVD/HDD COMBO.
20 **RETURN/ EXIT ↶**	Press to – return to the previous menu. – exit the menu while the menu or on-screen guide of the VCD player, LD player, DVD player, Blu-ray disc recorder, PSX, DVD/VHS COMBO, or satellite tuner is displayed on the TV screen. To return to the previous menu of Sony TV, press TV (27) and then press RETURN/EXIT ↶.

Name	Function
21 ⊕, ↑/↓/←/→	After pressing RECEIVER (4), press MENU (11) for receiver operation, then press ↑/↓/←/→ to select the settings. After pressing DVD TOP MENU (15) or DVD MENU (15), press ↑/↓/←/→ to select the settings, and then press ⊕ to enter the selection. Press ⊕ also to enter the selection of the receiver, VCR, satellite tuner, DVD player, Blu-ray disc recorder, PSX, DVD/VHS COMBO, or DVD/HDD COMBO.
22 **GUIDE**	Press to display the EPG (Electronic Program Guide) of the TV, DVD player, satellite tuner, Blu-ray disc recorder, PSX, or DVD/HDD COMBO.
23 **CLEAR**	Press to clear a mistake when you press the incorrect numeric button of the DVD player, Blu-ray disc recorder, PSX, satellite tuner, DVD/VHS COMBO, or DVD/HDD COMBO.
-/--	Press to select the channel entry mode, either one or two digit of the VCR or satellite tuner. To select the channel entry mode of the TV, press TV (27) and then press -/--.
>10	Press to select track numbers over 10 of the CD player, VCD player, LD player, MD deck, tape deck, TV, VCR, or satellite tuner.
24 **SLEEP**	Press to activate the Sleep Timer function and the duration which the receiver turns off automatically.
25 **FM MODE**	Press to select FM monaural or stereo reception.
26 **2CH**	Press to select a sound field.
A.F.D.	
MOVIE	
MUSIC	

Name	Function
27 **TV**	Press to light up the button. It changes the remote key function to activate the buttons with orange printing. It also activate the DISPLAY (9), OPTIONS TOOLS (10), MENU (11), RETURN/EXIT ↶ (20), ⊕ (21), and ↑/↓/←/→ (21) buttons to perform menu operations for Sony TVs only.
28 **RM SET UP**	Press to set up the remote.

a) The number 5, TV CH +, PRESET + and ▷ buttons have tactile dots. Use the tactile dots as references when operating the receiver.

b) This button is also available for DIGITAL MEDIA PORT adapter operation. For details on the function of the button, see the operating instructions supplied with the DIGITAL MEDIA PORT adapter.

Notes

Some functions explained in this section may not work depending on the model.
The above explanation is intended to serve as an example only. Therefore, depending on the component, the above operation may not be possible or may operate differently than described.
The AUX button on the remote is not available for receiver operation.

SECTION 2
TEST MODE

SOUND FIELD CLEAR MODE

The preset sound field is cleared when this mode is activated. Use this mode before returning the product to clients upon completion of repair.

Procedure:

1. While depressing the 2CH button, press the power I/⏻ button to turn on the main power.
2. The message "S.F. CLR." appears and initialization is performed. (3 second)

SOFTWARE VERSION DISPLAY MODE

The software version is displayed.

Procedure:

1. While depressing the SPEAKERS (OFF/A/B/A+B) and the DISPLAY buttons simultaneously, press the power I/⏻ button to turn on the main power.
2. The model name, destination and the software version are displayed. (8 second)

KEY CHECK MODE

Button check

Procedure:

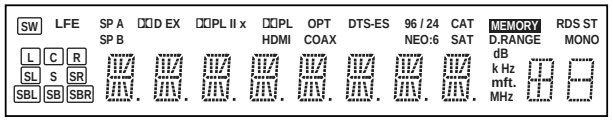
1. While depressing the SPEAKERS (OFF/A/B/A+B) and the 2CH buttons simultaneously, press the power I/⏻ button to turn on the main power.
   "REST 13" appears.
2. Every pressing of any button other than I/⏻ counts down the buttons. The buttons which are already counted once are not counted again.
3. When all buttons are pressed "REST 00" appears.

FLUORESCENT INDICATOR TUBE TEST MODE

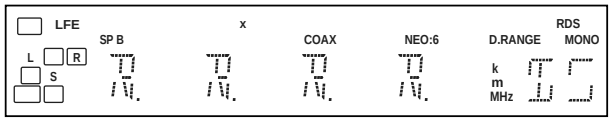
All fluorescent segments are tested. When this test is activated, all segments turn on at the same time, then each segment turns on one after another.

Procedure:

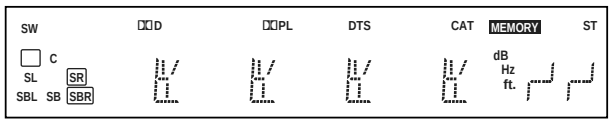
1. While depressing the TUNING MODE and the DISPLAY buttons simultaneously, press the power I/⏻ button to turn on the main power.
2. All segments turn on.



3. Turn the INPUT SELECTOR dial.



4. Turn the INPUT SELECTOR dial once again.



5. Turn the INPUT SELECTOR dial once again. All segments turn off.
6. Every turning of the INPUT SELECTOR dial turns on each segment one after another in the same order.

SWAP ALL MODE

The signal will be swapped to all channels so that all speakers will have sound output.

Procedure:

1. While depressing the SPEAKERS (OFF/A/B/A+B) and the A.F.D. buttons simultaneously, press the power I/⏻ button to turn on the main power.
2. "SWP. ALL" appears. (No change while displayed.)

SHIPMENT MODE

All preset contents are reset to the default setting.

Procedure:

1. While depressing the SPEAKERS (OFF/A/B/A+B) and the MUSIC buttons simultaneously, press the power I/⏻ button to turn on the main power.
2. "CLEARED" appears and switch off the set.

PROTECTOR

If an error occurs, the "Protector Display" will flash for a while and the power is turned OFF.

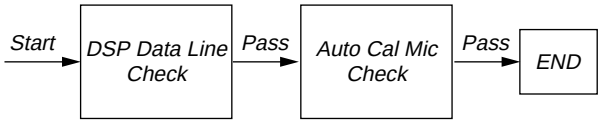
Procedure:

1. While depressing the TUNING MODE and the MUSIC buttons simultaneously, press the power I/⏻ button to turn on the main power.
2. "PROT. EVER" appears (3 seconds) and the display returns to the "Protector Display" and the power remains ON.

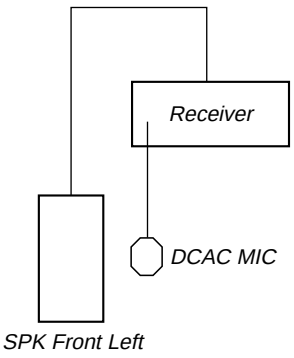
DCAC FACTORY TEST MODE

DCAC Factory Test mode have two stages:

1. DCAC DSP Data Line Checking
2. DCAC board Checking



Factory Test System Setup



1. When power off :
   Press the three buttons MEMORY/ENTER + MOVIE + I/⏻ .
   "DCAC FTM" appears.
   Afterward, press the TUNING MODE to start DCAC factory test mode.

1. DCAC DSP Data Line Checking

After press the TUNING MODE , DCAC Factory test mode will start, below display will show:

"DCAC□□□x" x = 1, 2, 3, 4

If there is error happen, below display will show:

"ERR□SD0x" x = 1 → D1501 or R1530 or C1512 problem
x = 2 → D1502 problem
x = 3 → D1503 problem
x = 4 → D1504 problem

2. DCAC board Checking

Connect front left speaker of the receiver and AUTO CAL microphone. Turn MASTER VOLUME jog, there will be test tone sound output from front left speaker, and the display will change accordingly.

"AD□-□xxx" xxx = 0 to 255 (depends on loudness of test tone)

VACS CONTROL

The VACS feature of the amplifier is turned off purposely.

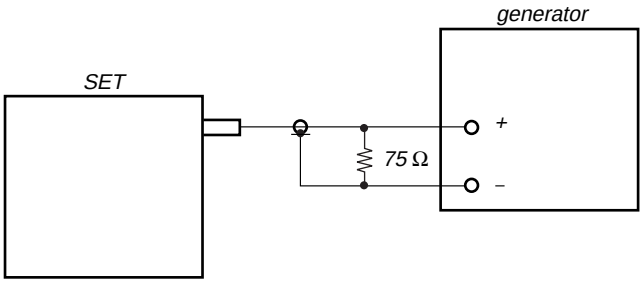
Procedure:

1. While depressing the MEMORY/ENTER and the 2CH buttons simultaneously, press the power I/⏻ button to turn on the main power.
2. "VACS OFF" appears. (8 second)

SECTION 3
ELECTRICAL ADJUSTMENT

TUNER SECTION

[FM Auto Stop Check]



Procedure:

1. Turn the power on.
2. Input the following signal from Signal Generator to FM antenna input directly.

* Carrier Freq : A = 87.5 MHz, B = 98 MHz, C = 108 MHz
Deviation : 75 kHz
Modulation : 1 kHz
ANT input : 35 dBu (EMF)

Note: Please use 75 ohm “coaxial cable” to connect SG and the set. You cannot use video cable for checking.
Please use SG whose output impedance is 75 ohm.

3. Set to FM tuner function and scan the input FM signal with automatic scanning.
4. Confirm that input Frequency of A, B and C are detected and automatic scanning stops.

The stop of automatic scanning means “The station signal is received in good condition.”

SECTION 4
DIAGRAMS

THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS.
(In addition to this, the necessary note is printed in each block.)

For Schematic Diagrams.
Note:

- All capacitors are in µF unless otherwise noted. (p: pF) 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- % : indicates tolerance.
- △ : internal component.
- : nonflammable resistor.
- : fusible resistor.
- : panel designation.

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

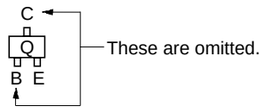
- : B+ Line.
- : B– Line.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  No mark : FM
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope.
- Circled numbers refer to waveforms.
- Signal path.
  : FM
  : ANALOG
  : DIGITAL
  : VIDEO

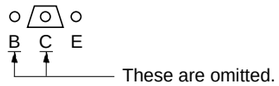
For Printed Wiring Boards.
Note:

- : parts extracted from the component side.
- ○ : Through hole.
- △ : internal component.
- : Pattern from the side which enables seeing.

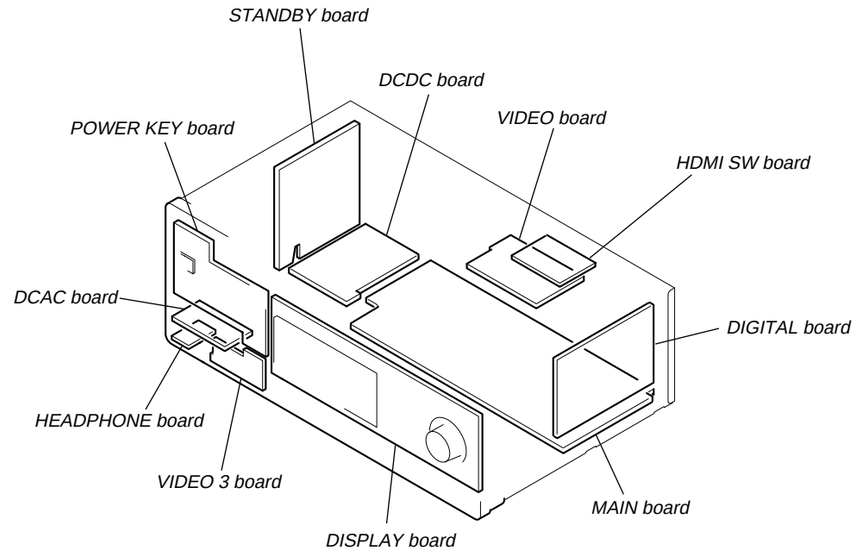
Caution:	
Pattern face side: (Side B)	Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Side A)	Parts on the parts face side seen from the parts face are indicated.

- Indication of transistor.





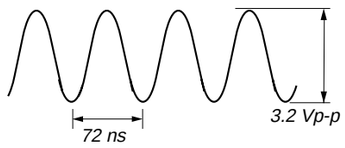
- **Circuit Boards Location**



- **Waveforms**

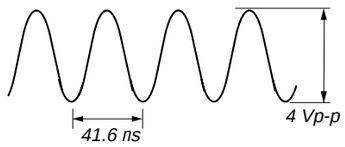
– DIGITAL Board –

① **IC1501 ⑨ (MCLK1)**



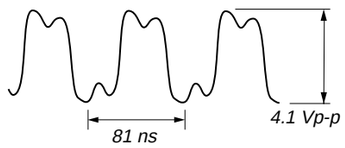
1 V/DIV, 40 ns/DIV

② **IC1101 ㉝ (X1)**



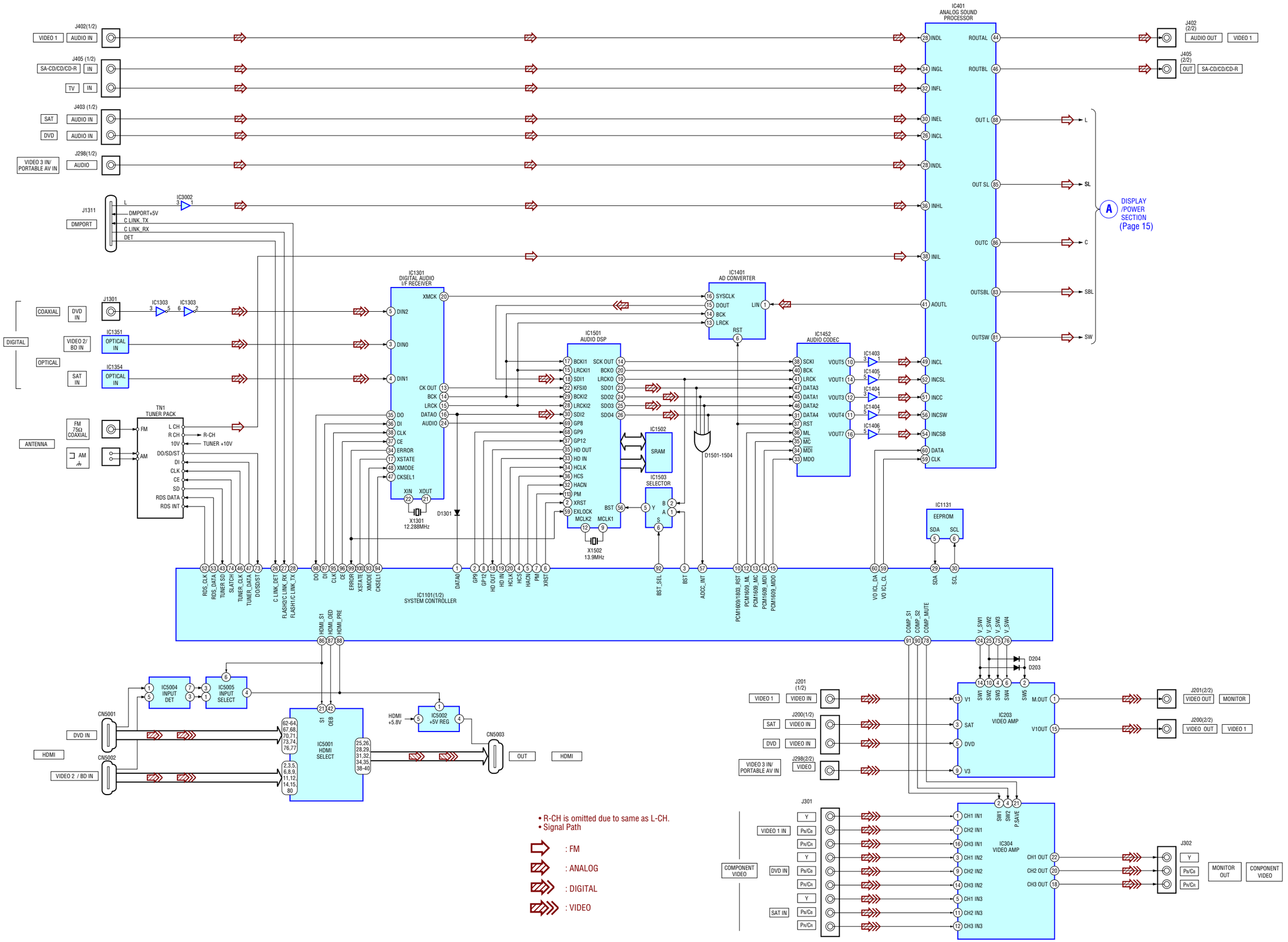
1 V/DIV, 20 ns/DIV

③ **IC1301 ㉒ (XIN)**

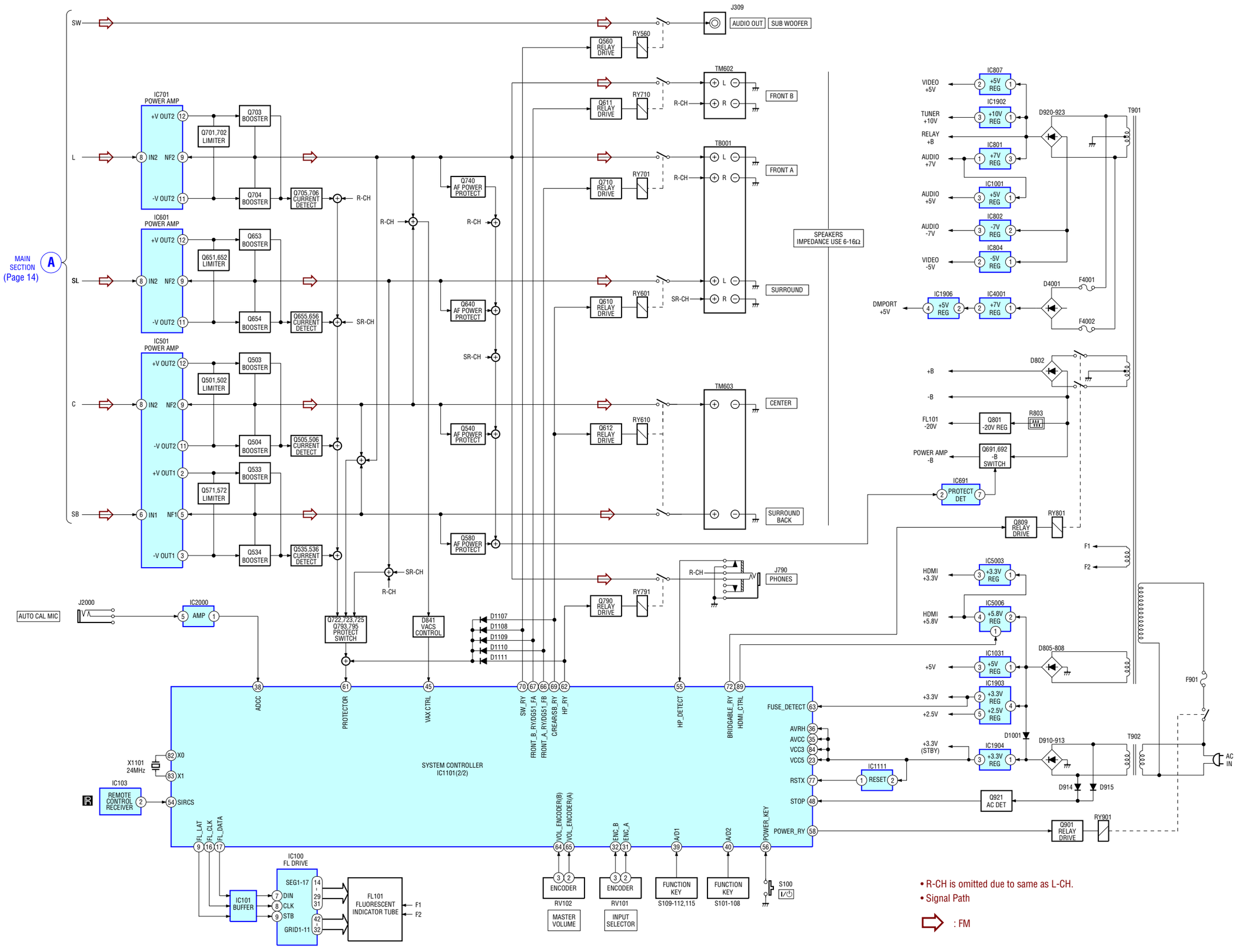


1 V/DIV, 40 ns/DIV

4-1. BLOCK DIAGRAM – MAIN SECTION –



4-2. BLOCK DIAGRAM – DISPLAY/POWER SECTION –

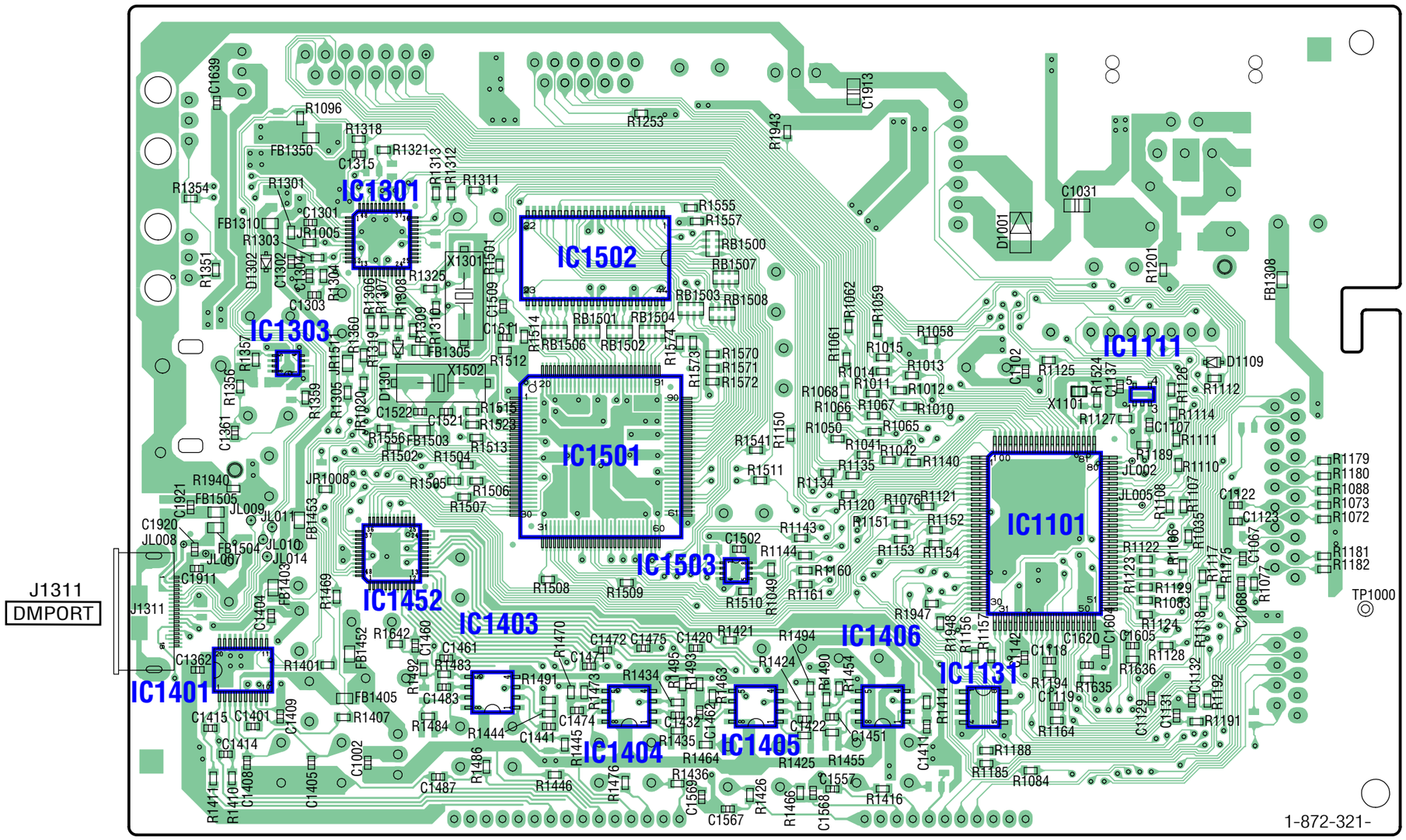


4-3. PRINTED WIRING BOARD – DIGITAL BOARD (SIDE A) –

• See page 13 for Circuit Boards Location.

:Uses unleaded solder.

【DIGITAL BOARD】(SIDE A)



- **Semiconductor Location**

Ref. No.	Location
D1001	C-6
D1109	C-7
D1301	C-3
D1302	C-3
IC1101	D-7
IC1111	C-7
IC1131	E-6
IC1301	C-3
IC1303	C-3
IC1401	E-2
IC1403	E-4
IC1404	E-4
IC1405	E-5
IC1406	E-6
IC1452	D-3
IC1501	D-4
IC1502	C-4
IC1503	D-5

11
(11)

4-4. PRINTED WIRING BOARD – DIGITAL BOARD (SIDE B) –

• See page 13 for Circuit Boards Location.

:Uses unleaded solder.

• **Semiconductor Location**

Ref. No.	Location
D1003	D-3
D1004	D-4
D1107	C-7
D1108	C-7
D1110	C-7
D1111	C-7
D1501	D-3
D1502	D-3
D1503	D-3
D1504	D-4
IC1001	F-3
IC1031	B-8
IC1351	C-2
IC1354	B-2
IC1902	B-5
IC1903	B-7
IC1904	C-6
IC1906	D-2

【DIGITAL BOARD】(SIDE B)

MAIN BOARD CNP913 (Page 23) D
STANDBY BOARD CNP903 (Page 30) C
MAIN BOARD CNP912 (Page 23) B
TUNER
VIDEO BOARD CNS207 (Page 34) A
DCDC BOARD CN4103 (Page 30) E

SAT IN
VIDEO 2/ BD IN
DIGITAL
J1301 COAXIAL
DVD IN

DISPLAY BOARD CNS101 (Page 28) H

for FLASH PROGRAMMING

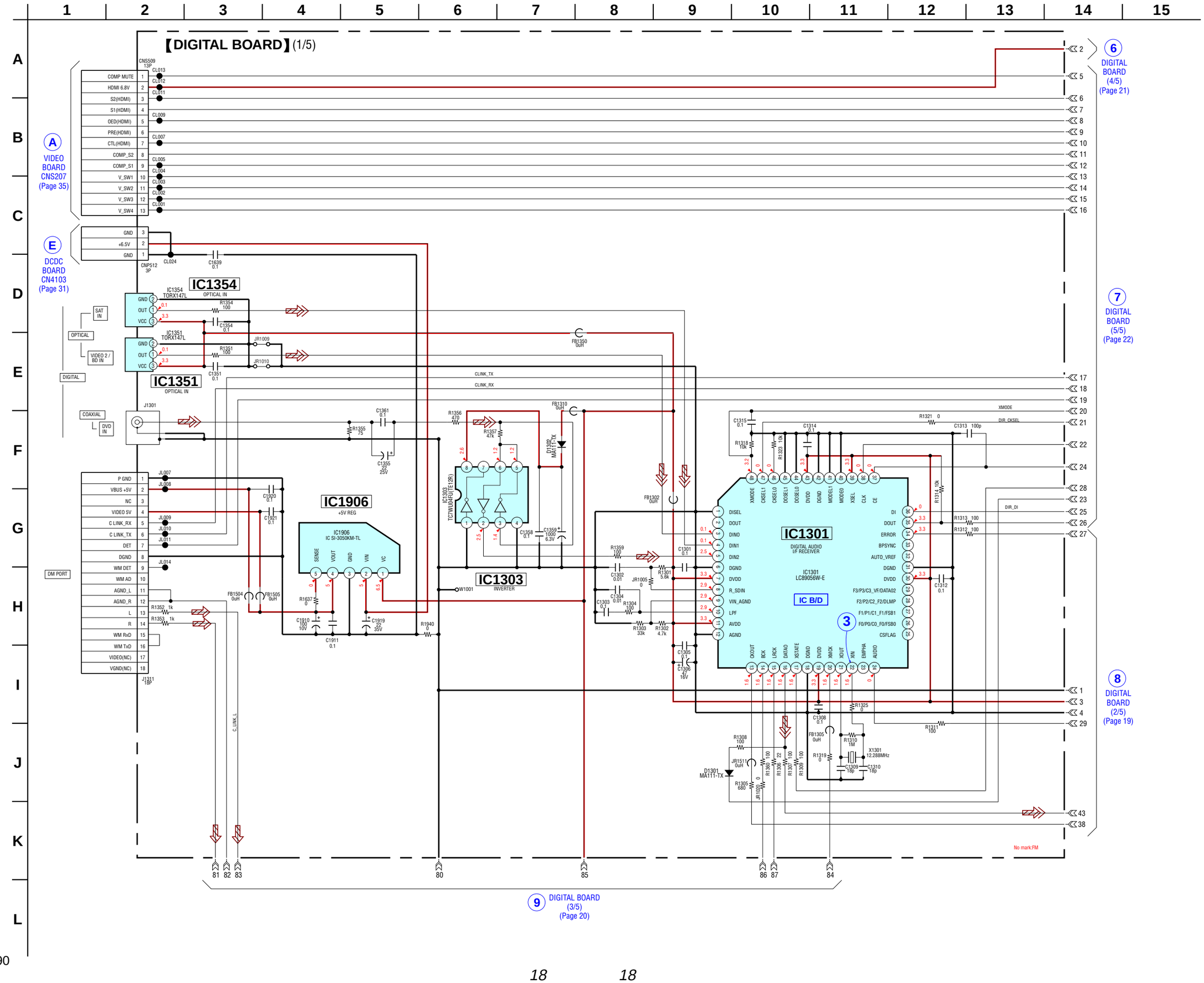
MAIN BOARD CN500 (Page 23) G
MAIN BOARD CNP501 (Page 23) F

IC1031 IC1903 IC1902 IC1904 IC1354 IC1351 IC1906 IC1001

1-872-321-11 (11)

4-5. SCHEMATIC DIAGRAM – DIGITAL BOARD (1/5) –

• See page 13 for Waveform. • See page 38 for IC Block Diagram.



4-6. SCHEMATIC DIAGRAM – DIGITAL BOARD (2/5) –

• See page 13 for Waveform. • See page 38 for IC Block Diagram.

【DIGITAL BOARD】(2/5)

DIGITAL BOARD (4/5) (Page 21) 11

DIGITAL BOARD (5/5) (Page 22) 12

IC1902 +9V REG

IC1503 SELECTOR IC B/D

IC1502 SRAM

IC1501 AUDIO DSP

8 DIGITAL BOARD (1/5) (Page 18)

10 DIGITAL BOARD (3/5) (Page 20)

4-7. SCHEMATIC DIAGRAM – DIGITAL BOARD (3/5) – • See page 38 for IC Block Diagrams.

【DIGITAL BOARD】(3/5)

9 DIGITAL BOARD (1/5) (Page 18)

10 DIGITAL BOARD (2/5) (Page 19)

F MAIN BOARD (1/4) CNP501 (Page 24)

13 DIGITAL BOARD (5/5) (Page 22)

IC1452 PCM1609APT AUDIO CODEC — IC B/D

IC1401 AD CONVERTER — IC B/D

IC1001 +5V REG — IC1001 TA7805S

IC1403 NJM4565M(TE2) AMP

IC1404 NJM4565M(TE2) AMP

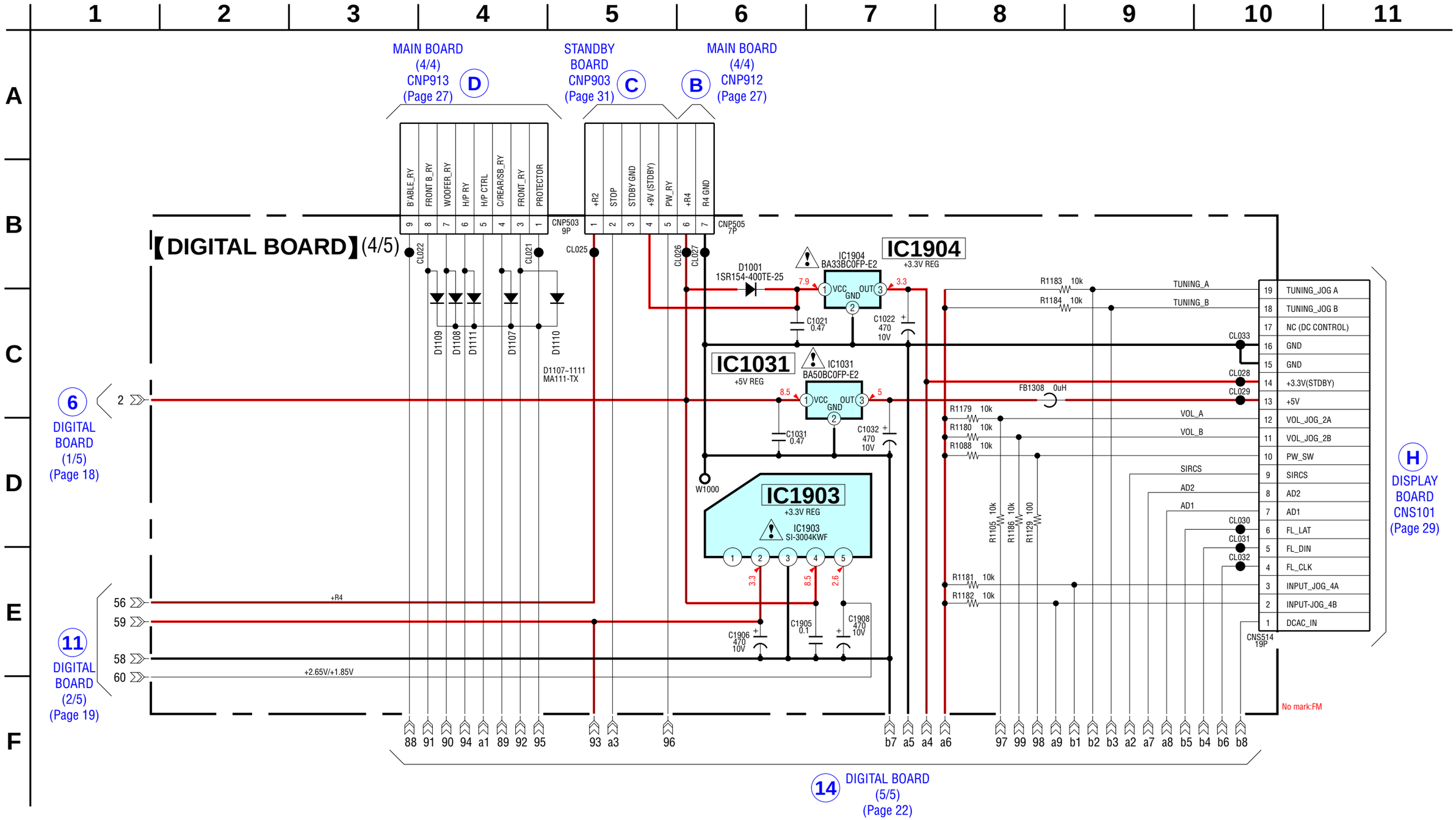
IC1405 NJM4565M(TE2) AMP

IC1406 NJM4565M(TE2) AMP

CNS501 15P

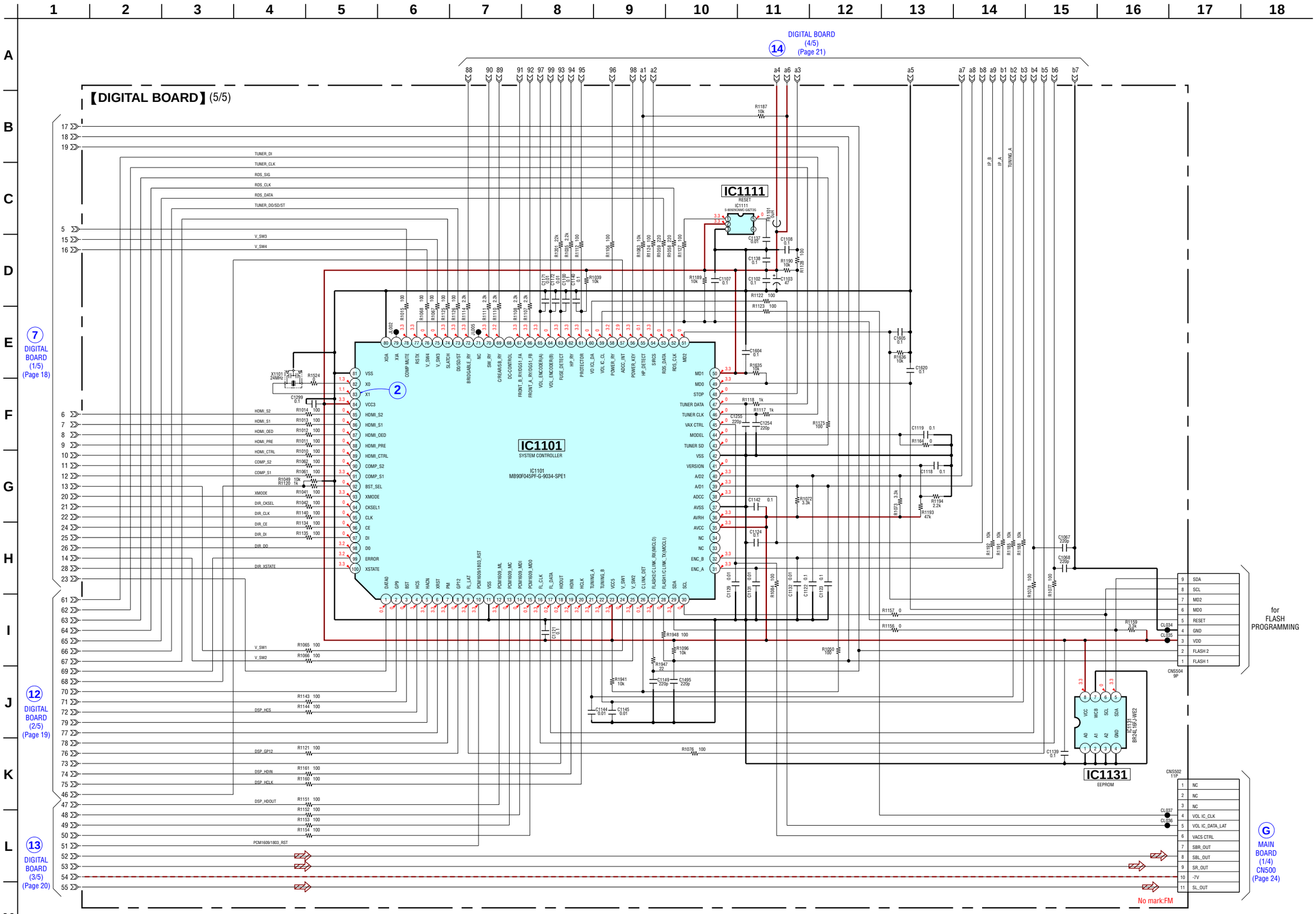
No mark:FM

4-8. SCHEMATIC DIAGRAM – DIGITAL BOARD (4/5) –



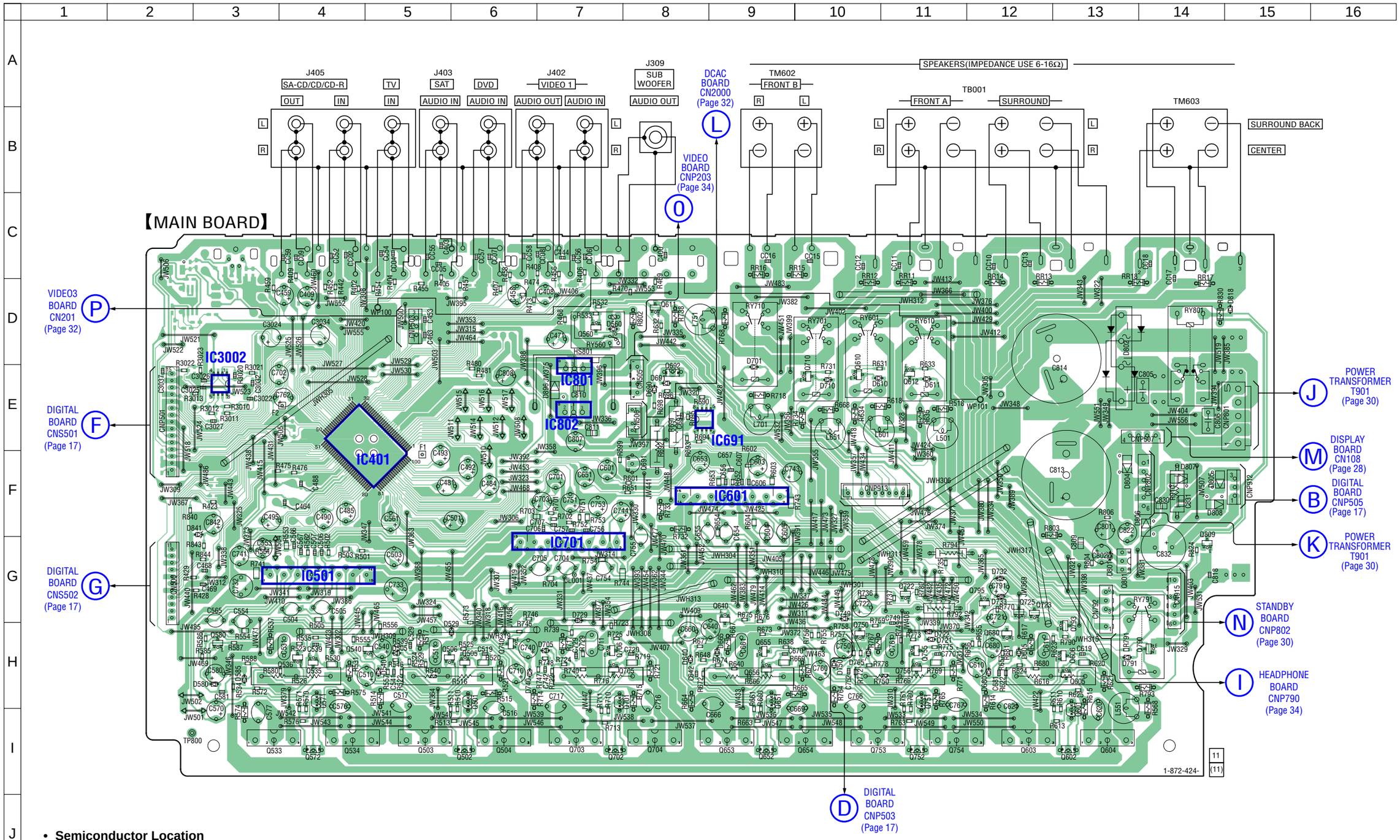
4-9. SCHEMATIC DIAGRAM – DIGITAL BOARD (5/5) –

• See page 13 for Waveform. • See page 41 for IC Pin Function Description.



4-10. PRINTED WIRING BOARD – MAIN BOARD –

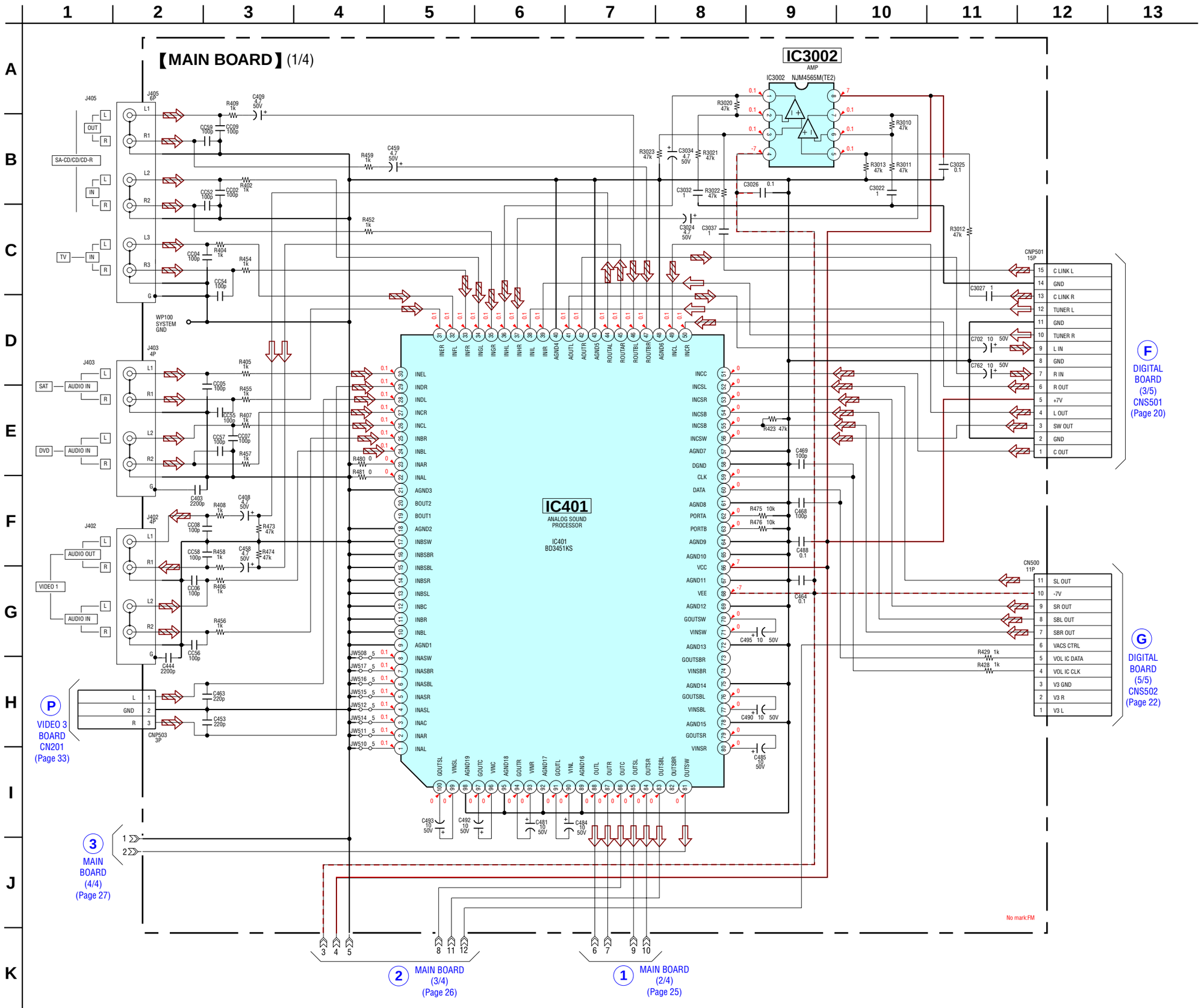
• See page 13 for Circuit Boards Location. :Uses unleaded solder.



• **Semiconductor Location**

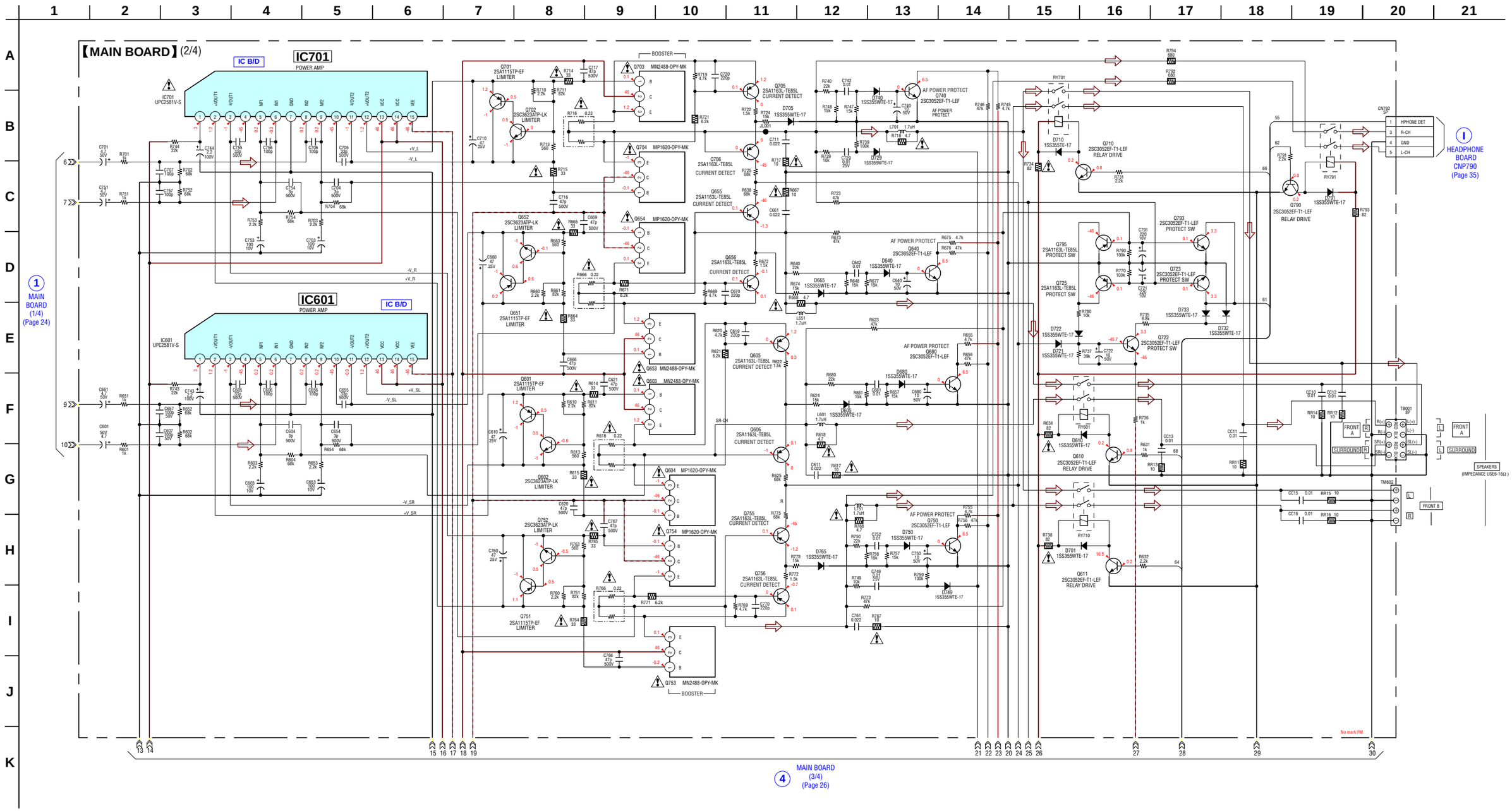
Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D505	H-5	D701	D-9	D802	D-13	IC701	G-7	Q536	H-4	Q612	E-11	Q704	I-8	Q756	H-11
D529	H-6	D705	H-7	D804	F-13	IC801	E-7	Q540	H-4	Q640	G-9	Q705	H-8	Q790	H-14
D540	H-5	D710	E-10	D805	F-14	IC802	E-7	Q560	D-7	Q651	H-9	Q706	H-7	Q793	H-13
D560	D-7	D721	H-11	D806	F-14	IC3002	D-3	Q571	H-4	Q652	I-9	Q710	D-10	Q795	G-12
D580	H-3	D722	H-11	D807	F-14			Q572	I-4	Q653	I-9	Q722	G-11	Q801	G-13
D585	H-3	D729	G-7	D808	F-14	Q501	H-6	Q580	H-3	Q654	I-10	Q723	G-12	Q809	F-14
D605	H-12	D732	G-12	D818	D-15	Q502	I-6	Q601	H-13	Q655	H-9	Q725	G-12		
D610	E-10	D733	G-12	D841	F-3	Q503	I-5	Q602	I-13	Q656	H-9	Q740	H-6		
D611	E-11	D740	H-6	D896	E-7	Q504	I-6	Q603	I-12	Q680	H-12	Q750	H-10		
D640	H-8	D749	G-10			Q505	H-6	Q604	I-13	Q691	F-8	Q751	H-11		
D665	H-9	D750	H-10	IC401	F-5	Q506	H-6	Q605	H-13	Q692	E-8	Q752	I-11		
D680	H-12	D765	H-10	IC501	G-4	Q533	I-3	Q606	H-13	Q701	H-7	Q753	I-10		
D690	E-8	D791	H-13	IC601	F-9	Q534	I-4	Q610	D-10	Q702	I-7	Q754	I-11		
D691	E-8	D801	G-13	IC691	E-9	Q535	H-4	Q611	D-8	Q703	I-7	Q755	H-11		

4-11. SCHEMATIC DIAGRAM – MAIN BOARD (1/4) –



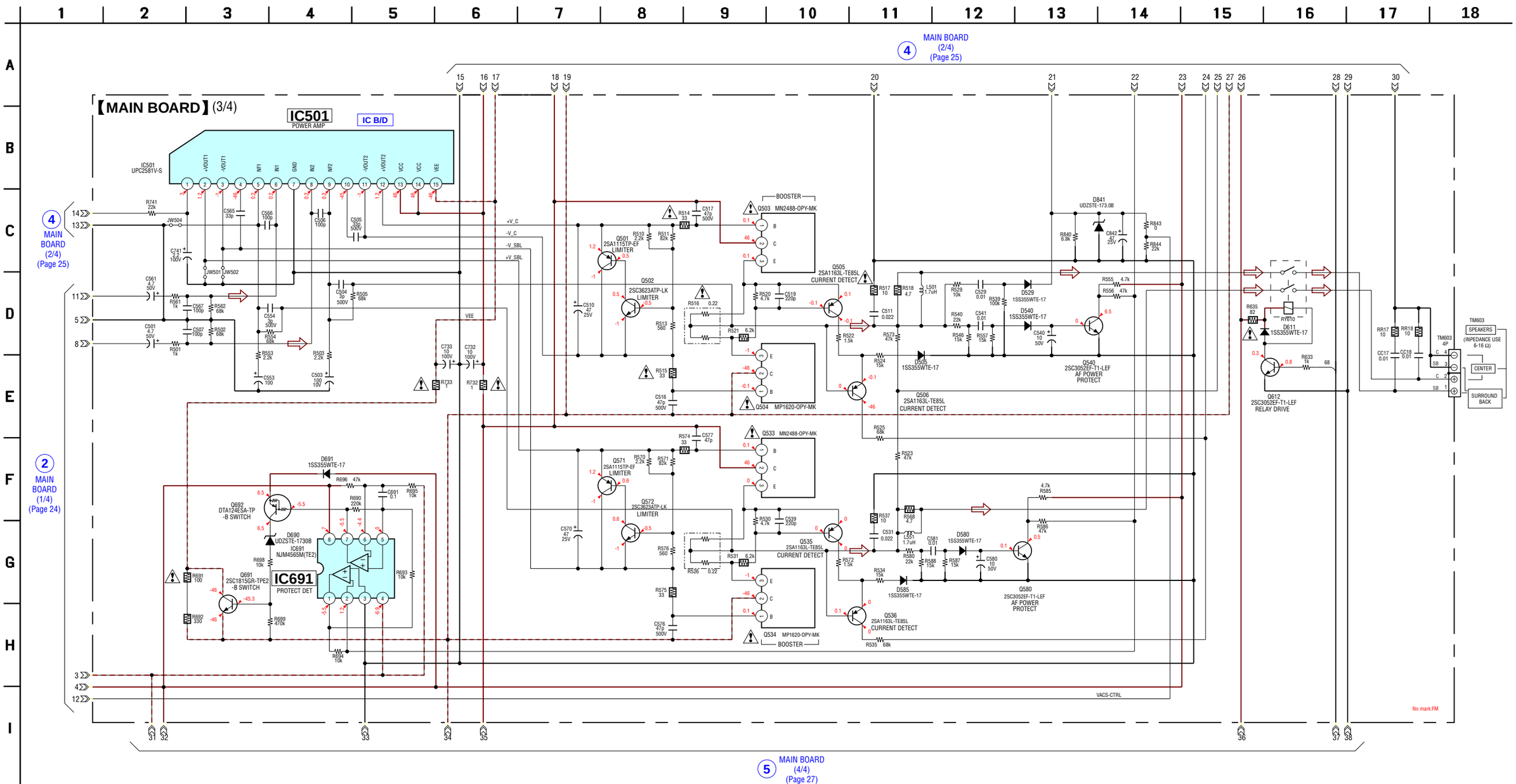
4-12. SCHEMATIC DIAGRAM – MAIN BOARD (2/4) –

• See page 38 for IC Block Diagrams.

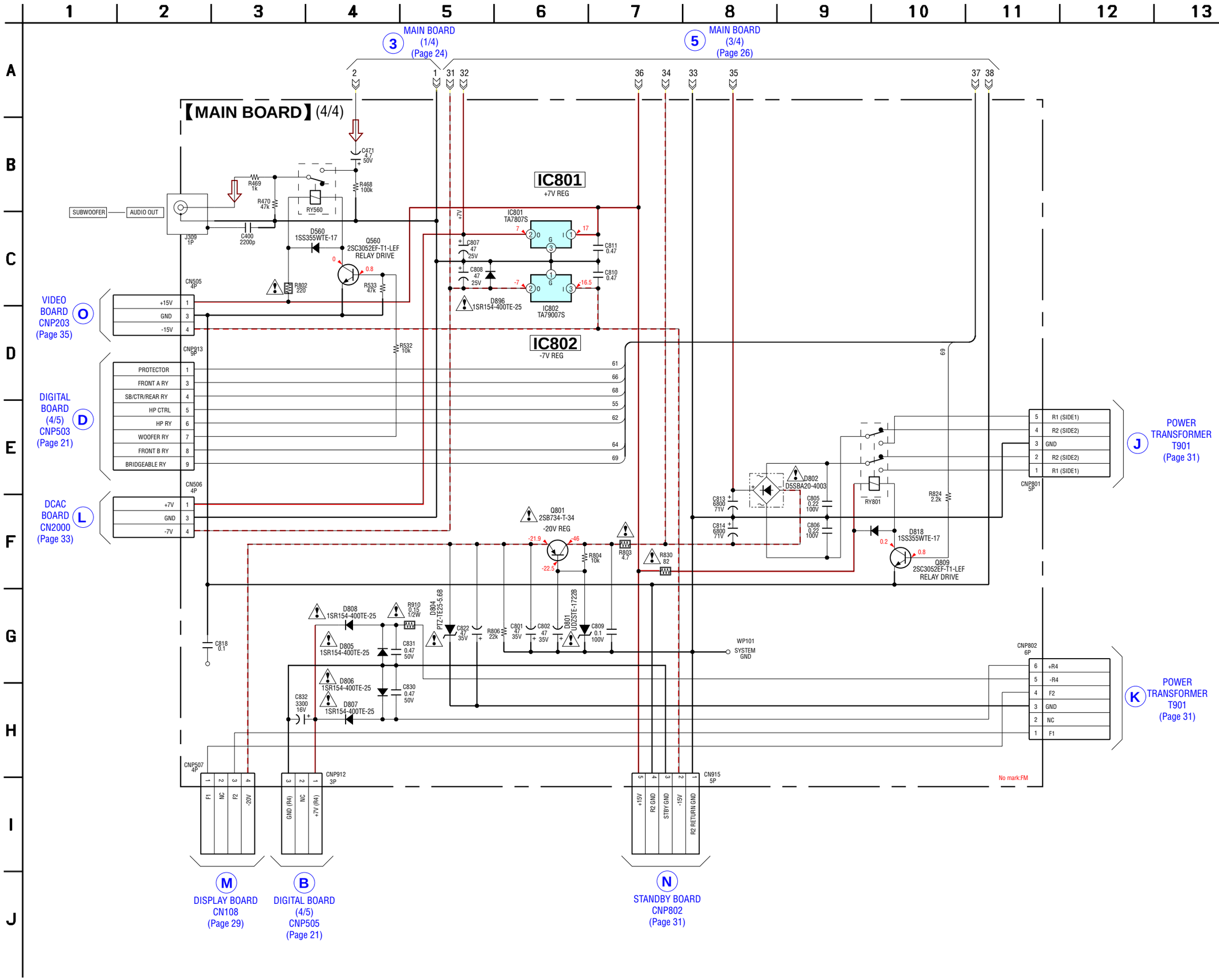


4-13. SCHEMATIC DIAGRAM – MAIN BOARD (3/4) –

• See page 38 for IC Block Diagram.

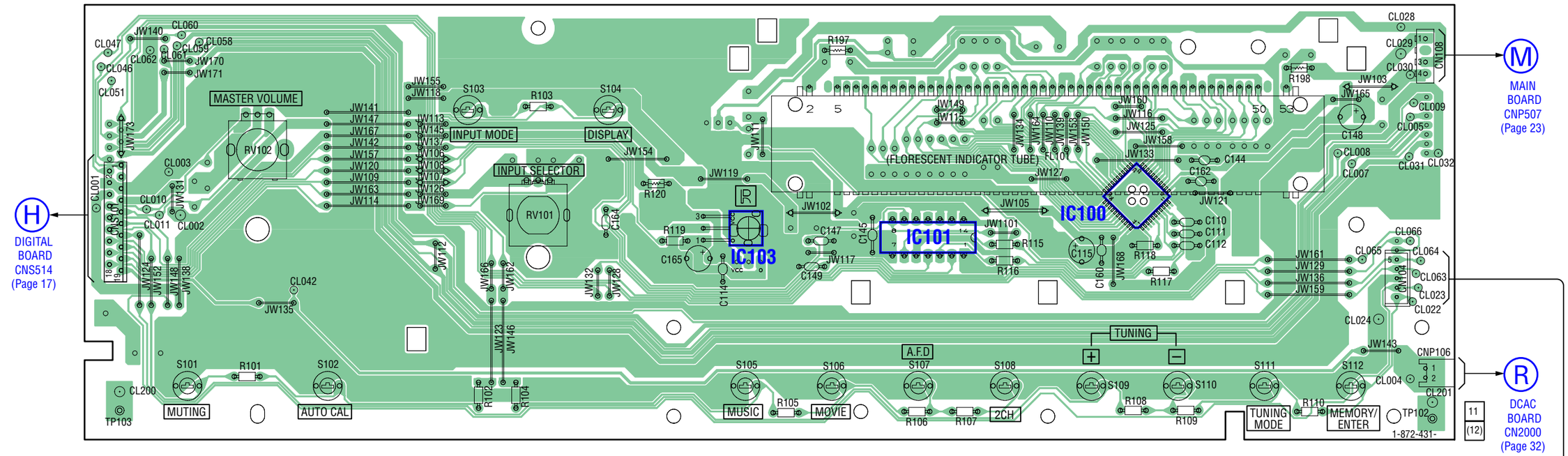


4-14. SCHEMATIC DIAGRAM – MAIN BOARD (4/4) –

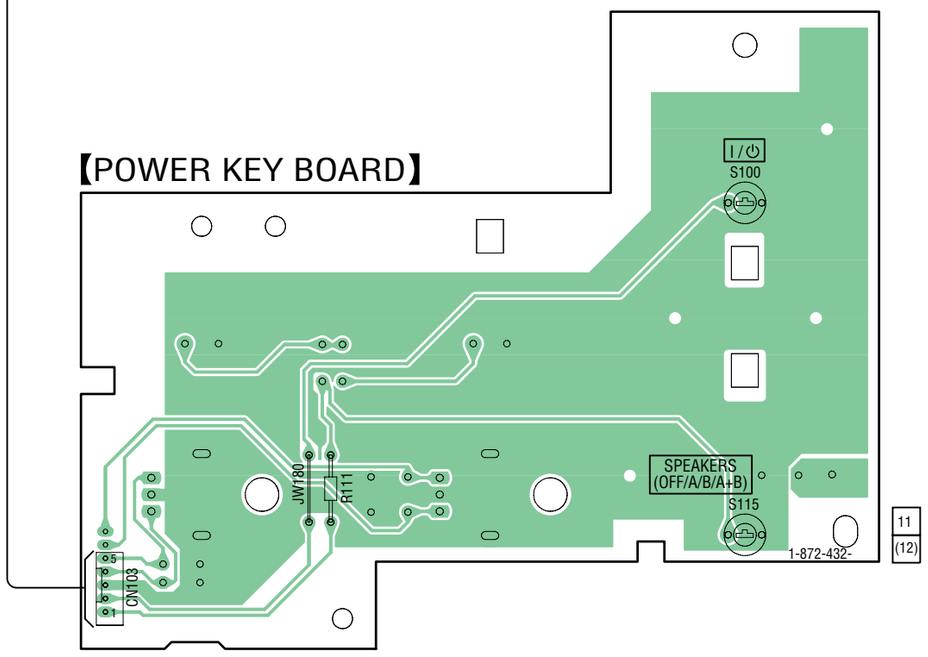


4-15. PRINTED WIRING BOARDS – DISPLAY BOARD, POWER KEY BOARD – • See page 13 for Circuit Boards Location. :Uses unleaded solder.

【DISPLAY BOARD】

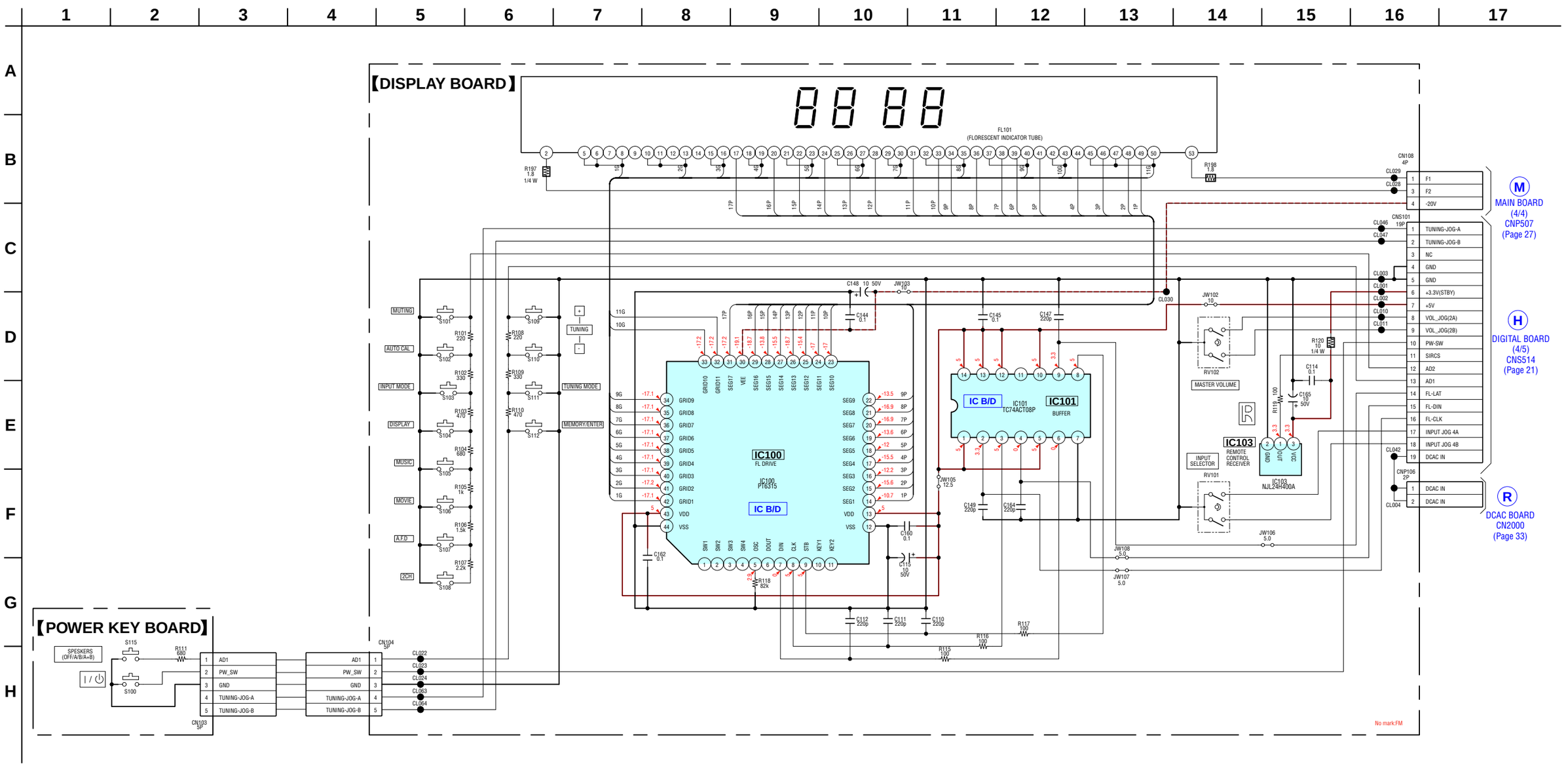


【POWER KEY BOARD】



4-16. SCHEMATIC DIAGRAM – DISPLAY BOARD, POWER KEY BOARD –

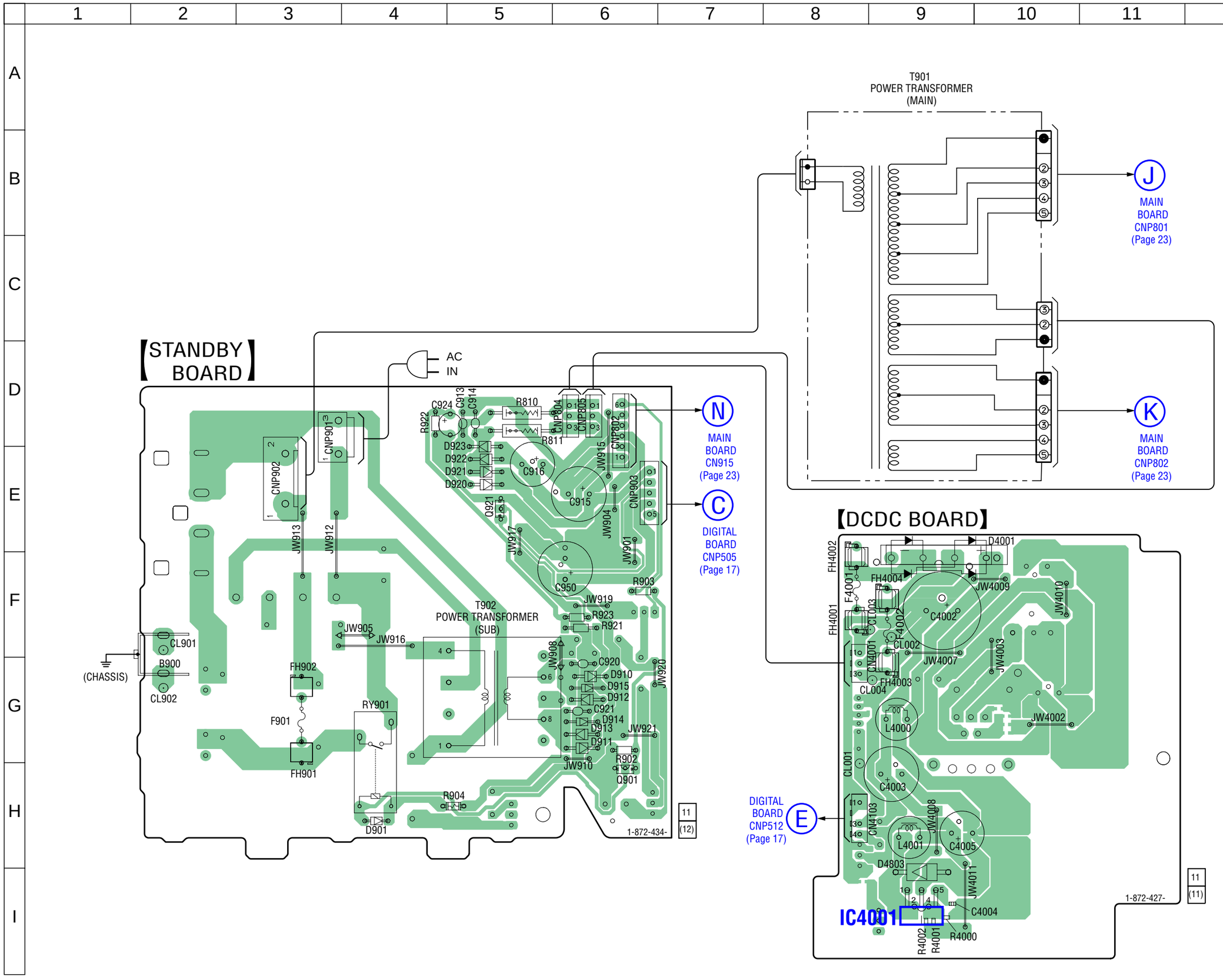
• See page 38, 39 for IC Block Diagrams.



4-17. PRINTED WIRING BOARDS – STANDBY BOARD, DCDC BOARD –

• See page 13 for Circuit Boards Location.

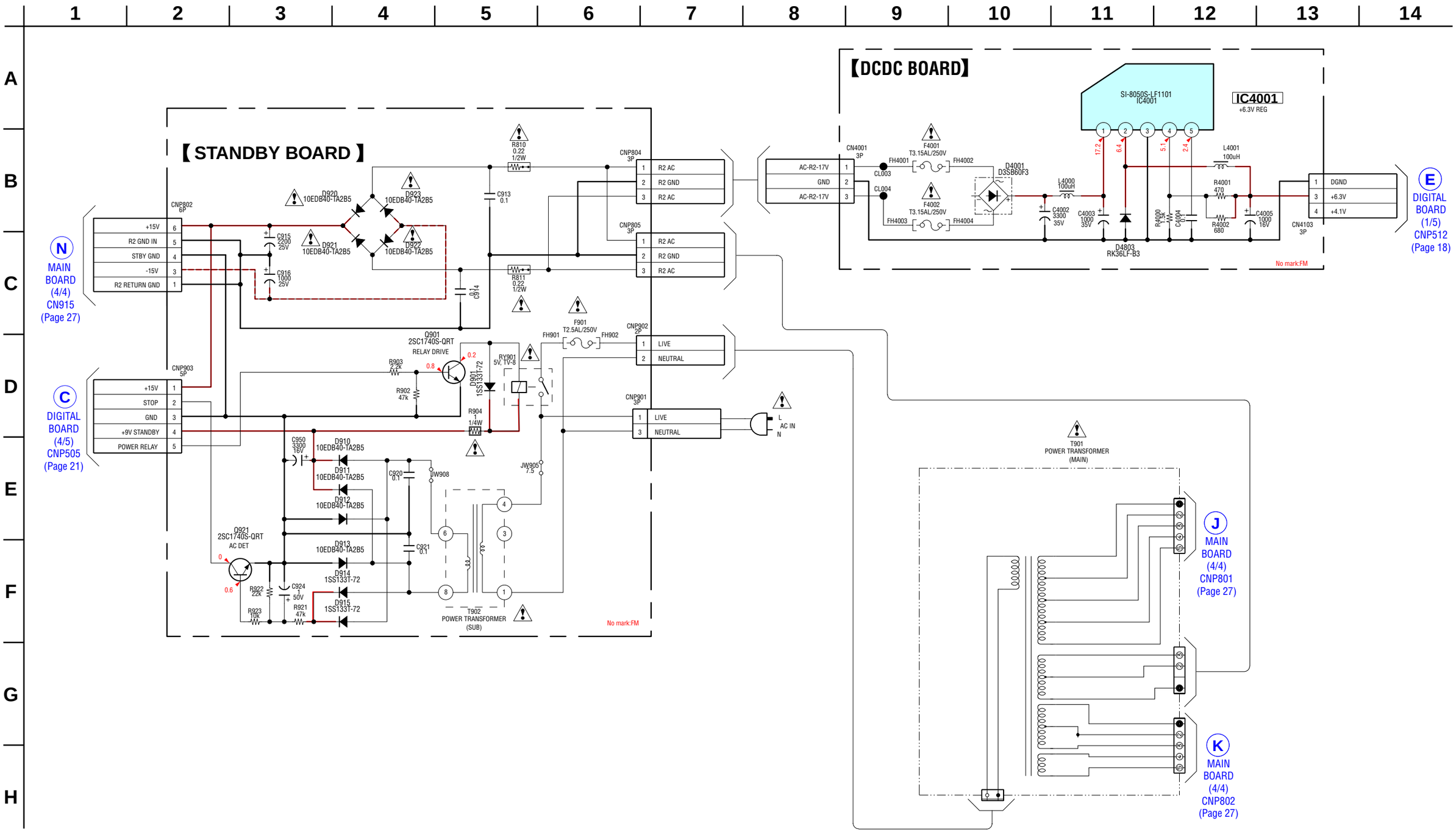
:Uses unleaded solder.



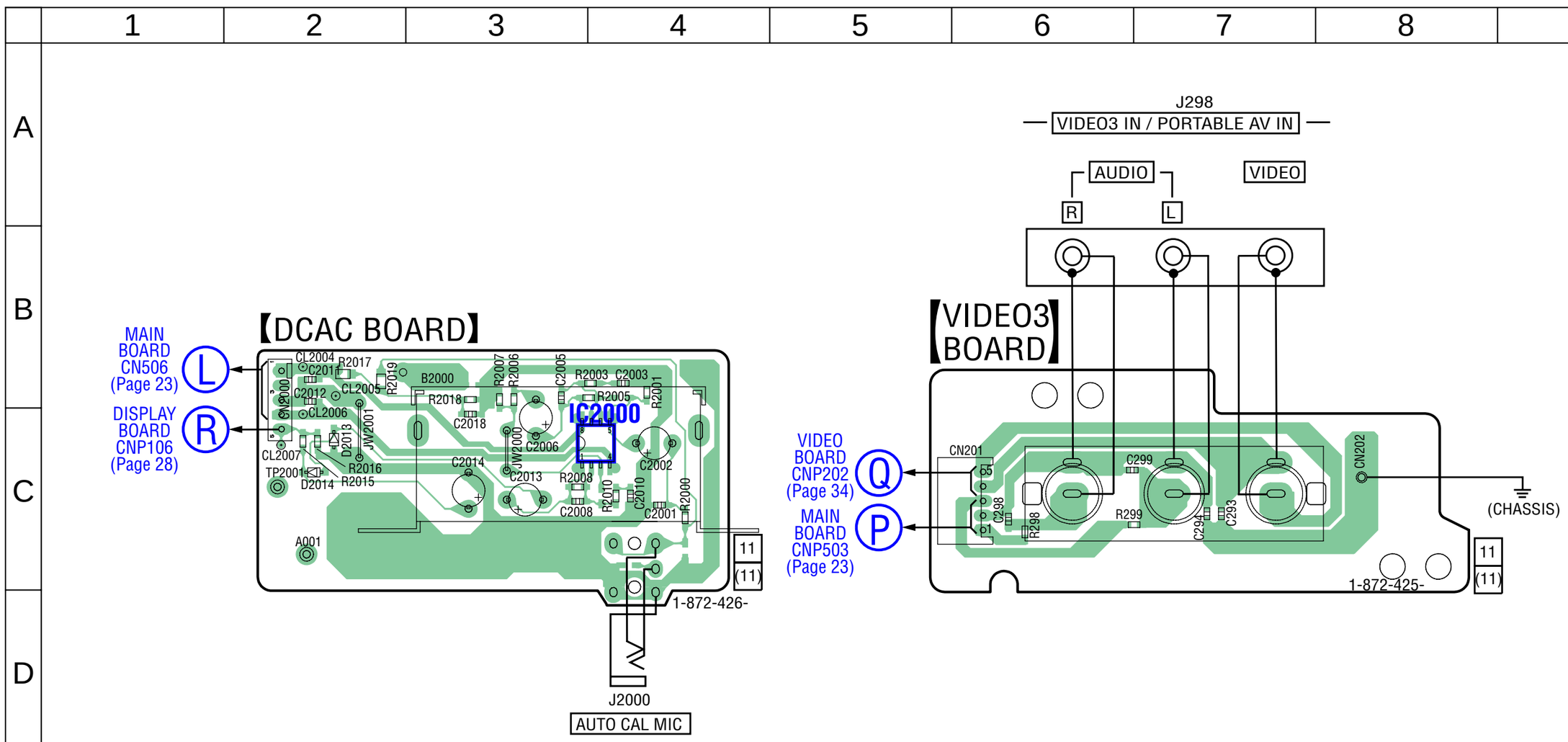
- **Semiconductor Location**

Ref. No.	Location
D901	H-4
D910	G-6
D911	H-6
D912	G-6
D913	G-6
D914	G-6
D915	G-6
D920	E-5
D921	E-5
D922	E-5
D923	E-5
D4001	E-10
D4803	H-9
IC4001	I-9
Q901	H-6
Q921	E-5

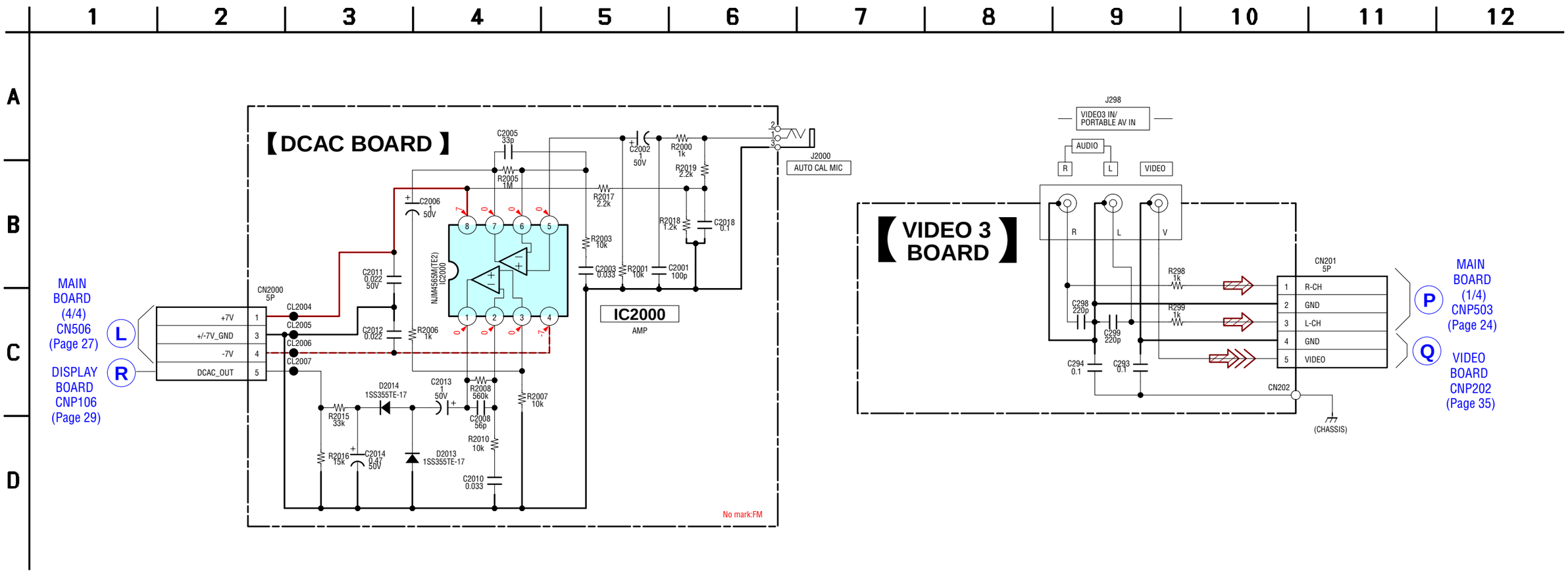
4-18. SCHEMATIC DIAGRAM – STANDBY BOARD, DCDC BOARD –



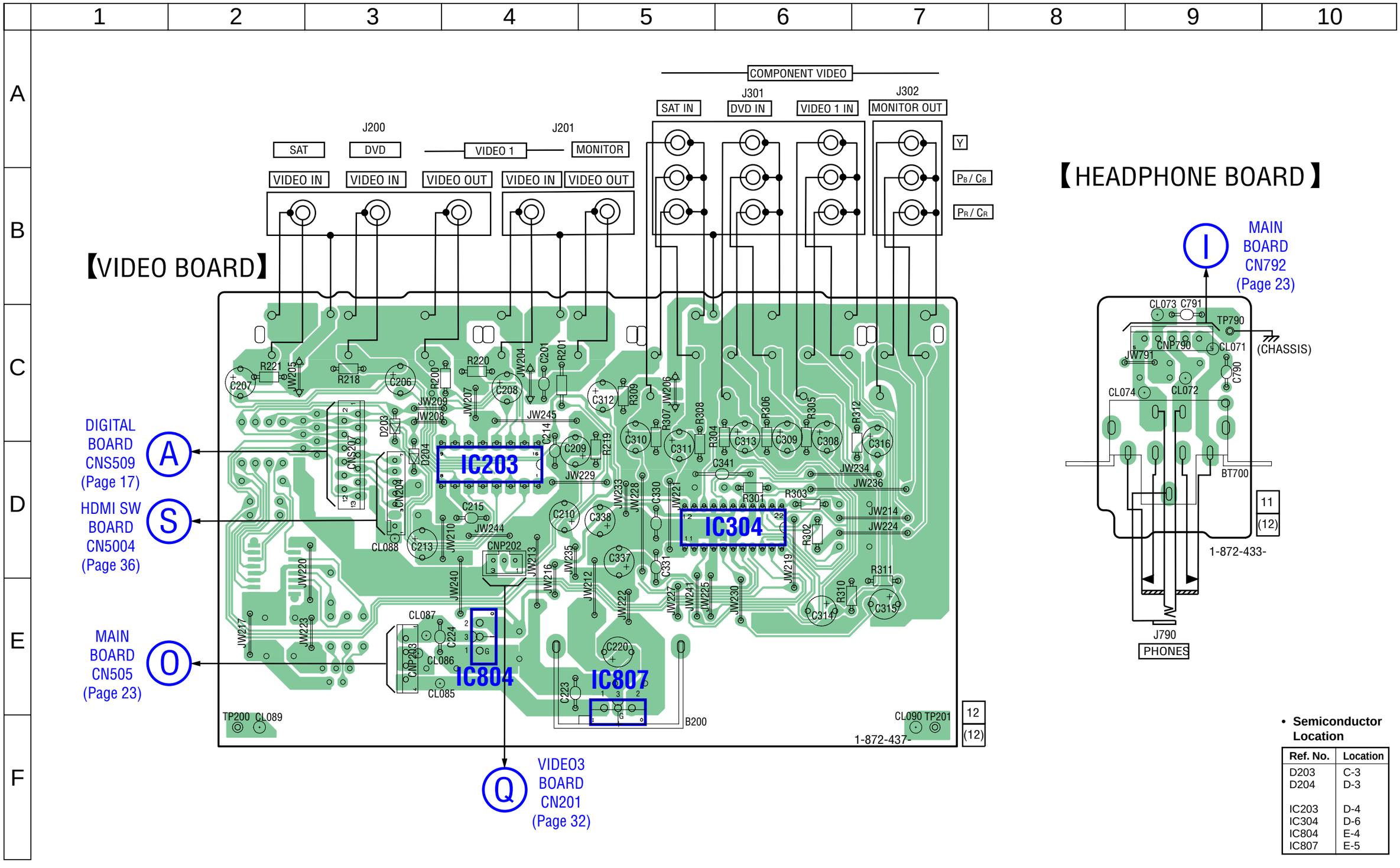
4-19. PRINTED WIRING BOARDS – DCAC BOARD, VIDEO3 BOARD – • See page 13 for Circuit Boards Location. :Uses unleaded solder.



4-20. SCHEMATIC DIAGRAM – DCAC BOARD, VIDEO3 BOARD –



4-21. PRINTED WIRING BOARDS – VIDEO BOARD, HEADPHONE BOARD – • See page 13 for Circuit Boards Location. :Uses unleaded solder.

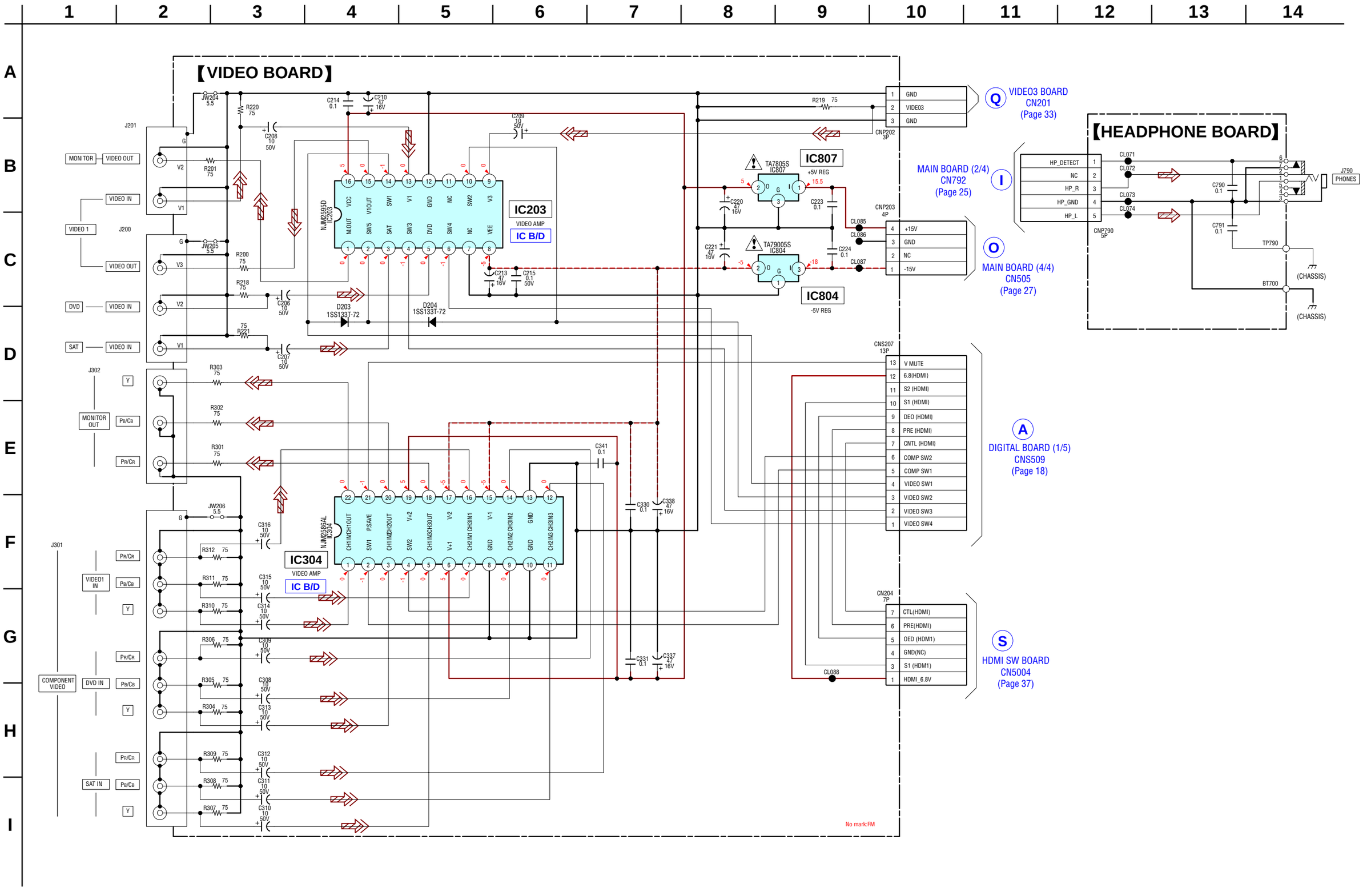


- **Semiconductor Location**

Ref. No.	Location
D203	C-3
D204	D-3
IC203	D-4
IC304	D-6
IC804	E-4
IC807	E-5

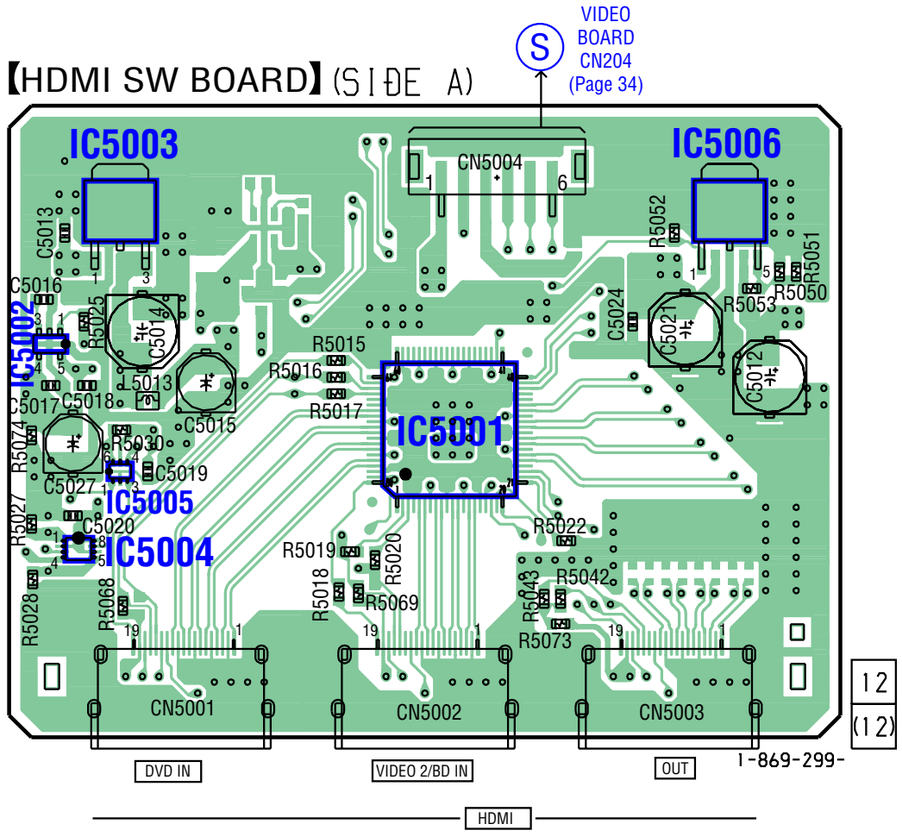
4-22. SCHEMATIC DIAGRAM – VIDEO BOARD, HEADPHONE BOARD –

• See page 40 for IC Block Diagrams.

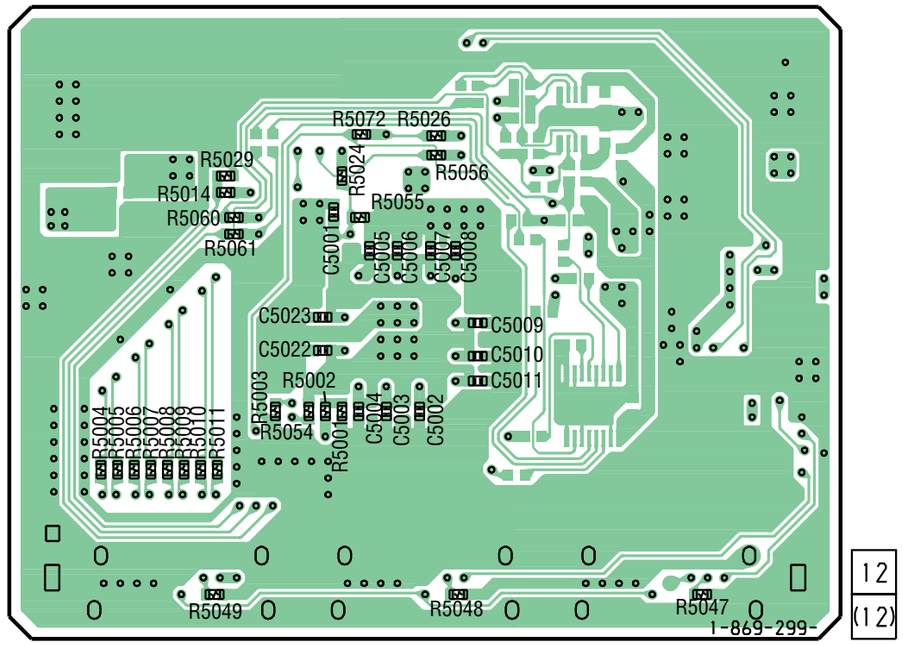


4-23. PRINTED WIRING BOARD – HDMI SW BOARD – • See page 13 for Circuit Boards Location. :Uses unleaded solder.

【HDMI SW BOARD】(SIDE A)



【HDMI SW BOARD】(SIDE B)



- **Semiconductor Location**

Ref. No.	Location
IC5001	B-3
IC5002	B-1
IC5003	B-2
IC5004	C-2
IC5005	C-2
IC5006	A-4

4-24. SCHEMATIC DIAGRAM – HDMI SW BOARD – • See page 39 for IC Block Diagram.

【HDMI SW BOARD】

DVD IN

HOT PLUG DET	19
+5V POWER	18
DCC/CEC GND	17
SDA (5V)	16
SCL (5V)	15
RESERVE (N.C.)	14
CEC	13
CLOCK-	12
CLOCK SHIELD	11
CLOCK+	10
DATA0-	9
DATA0 SHIELD	8
DATA0+	7
DATA1-	6
DATA1 SHIELD	5
DATA1+	4
DATA2-	3
DATA2 SHIELD	2
DATA2+	1

CN5001 19P

HDMI

VIDEO 2/BD IN

HOT PLUG DET	19
+5V POWER	18
DCC/CEC GND	17
SDA (5V)	16
SCL (5V)	15
RESERVE (N.C.)	14
CEC	13
CLOCK-	12
CLOCK SHIELD	11
CLOCK+	10
DATA0-	9
DATA0 SHIELD	8
DATA0+	7
DATA1-	6
DATA1 SHIELD	5
DATA1+	4
DATA2-	3
DATA2 SHIELD	2
DATA2+	1

CN5002 19P

OUT

HOT PLUG DET	19
+5V POWER	18
DCC/CEC GND	17
SDA (5V)	16
SCL (5V)	15
RESERVE (N.C.)	14
CEC	13
CLOCK-	12
CLOCK SHIELD	11
CLOCK+	10
DATA0-	9
DATA0 SHIELD	8
DATA0+	7
DATA1-	6
DATA1 SHIELD	5
DATA1+	4
DATA2-	3
DATA2 SHIELD	2
DATA2+	1

CN5003 19P

IC5001 HDMI SELECT
IC5001 TMDS341PFCR

IC5004 INPUT DET
IC5004 TC7WZ08FK(TE85R)

IC5005 INPUT SELECT
IC5005 SN74LVC1G3157DCKR

IC B/D

IC5002 +5V REG
IC5002 TK11150CSCL-G

IC5003 +3.3V REG
IC5003 BA33BC0FP-E2

IC5006 +5.8V REG
IC5006 BA00BC0WEP-E2

CN5004 6P

1	+VCC (+6.5~+9)
2	S1
3	GND
4	OEB
5	DET
6	CTL

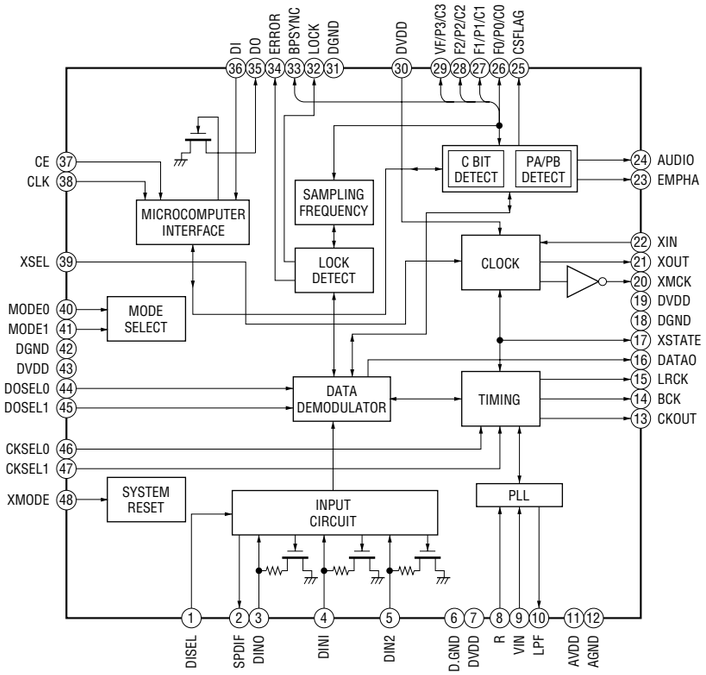
(S) VIDEO BOARD CN204 (Page 35)

No mark:FM

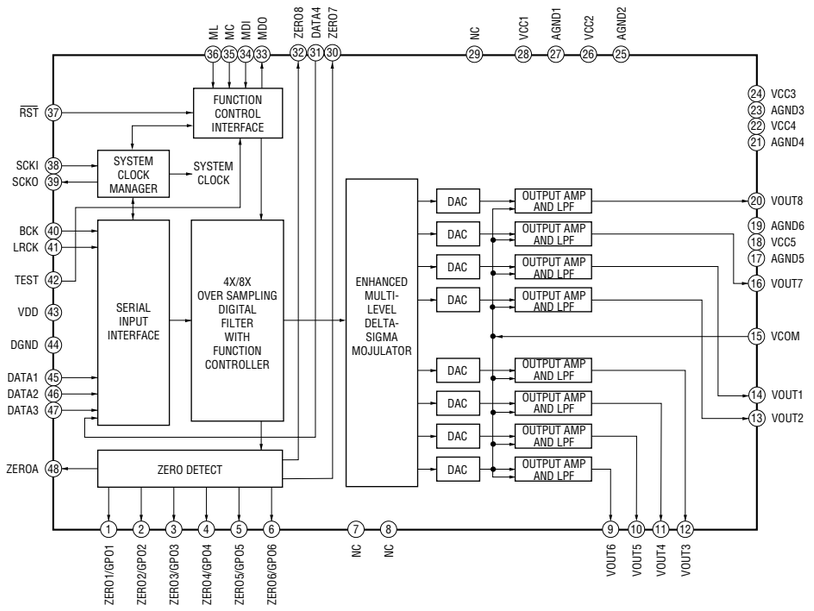
- **IC Block Diagrams**

– DIGITAL Board –

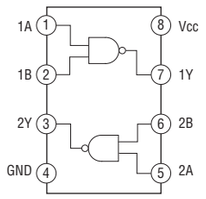
IC1301 LC89056W-E



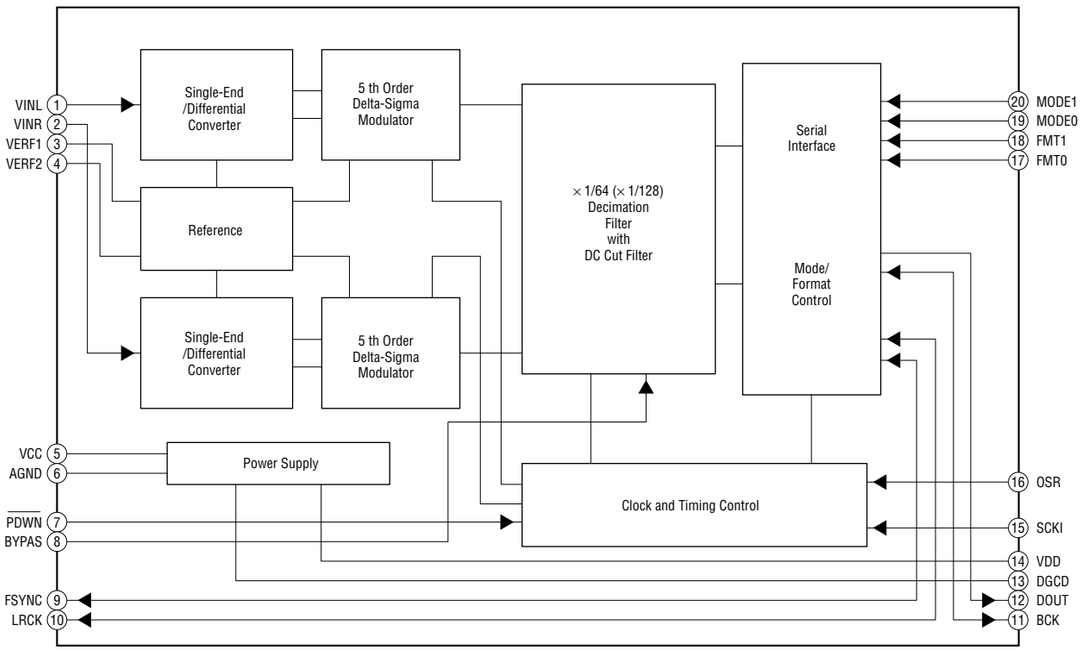
IC1452 PCM1609APT



IC1503 TC7WH157FU

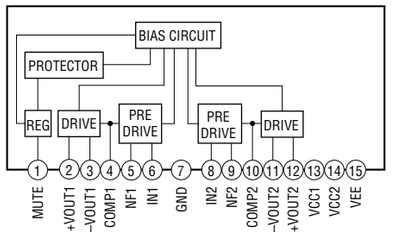


IC1401 PCM1803DBR



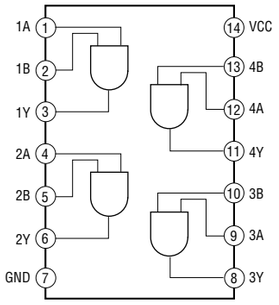
– MAIN Board –

IC501, IC601, IC701 uPC2581V-S



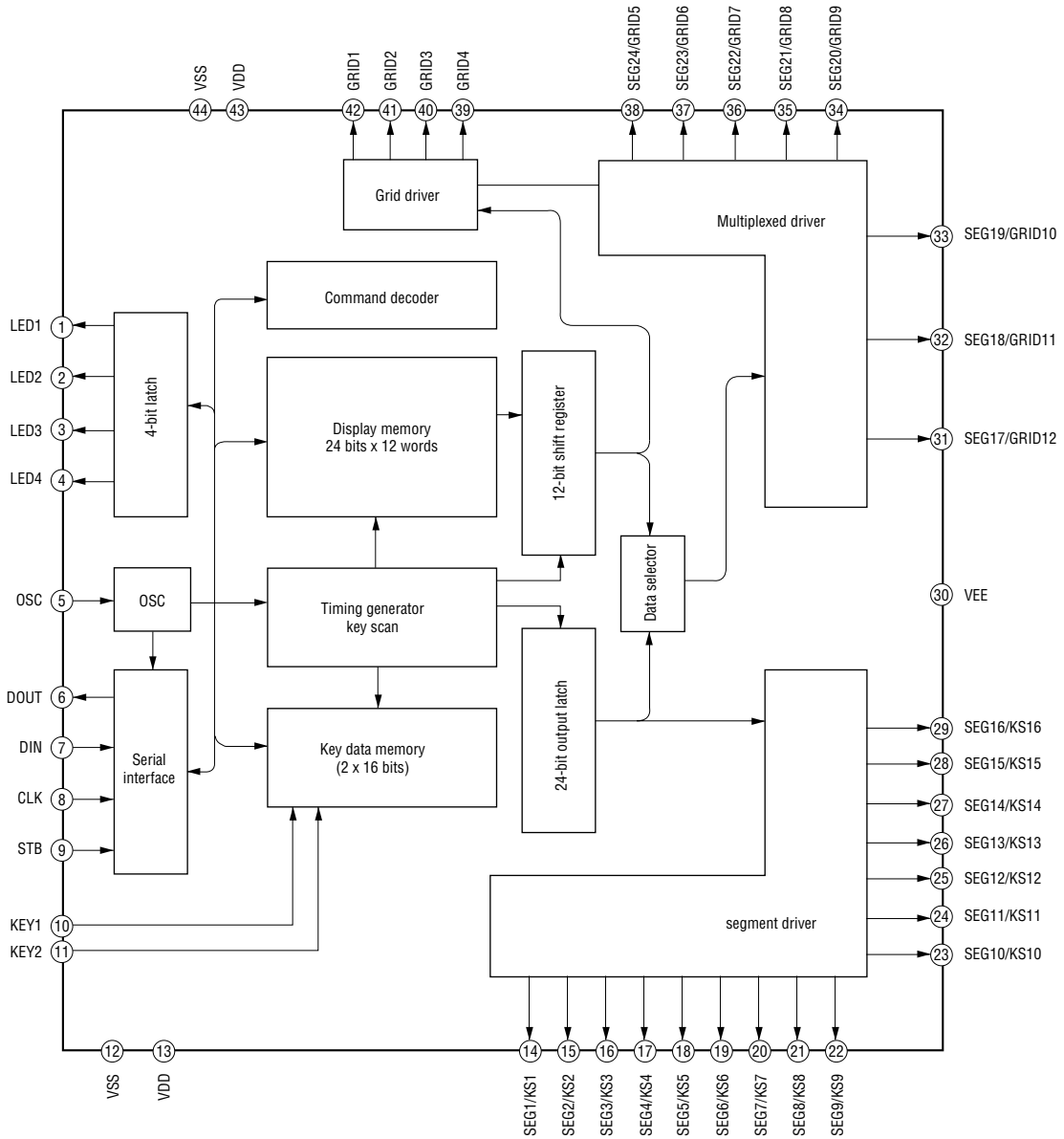
– DISPLAY Board –

IC101 TC74ACT08P



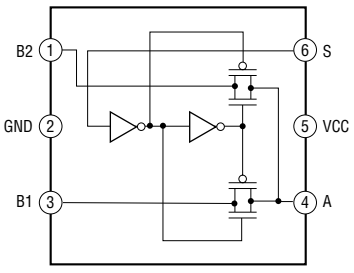
– DISPLAY Board –

IC100 PT6315



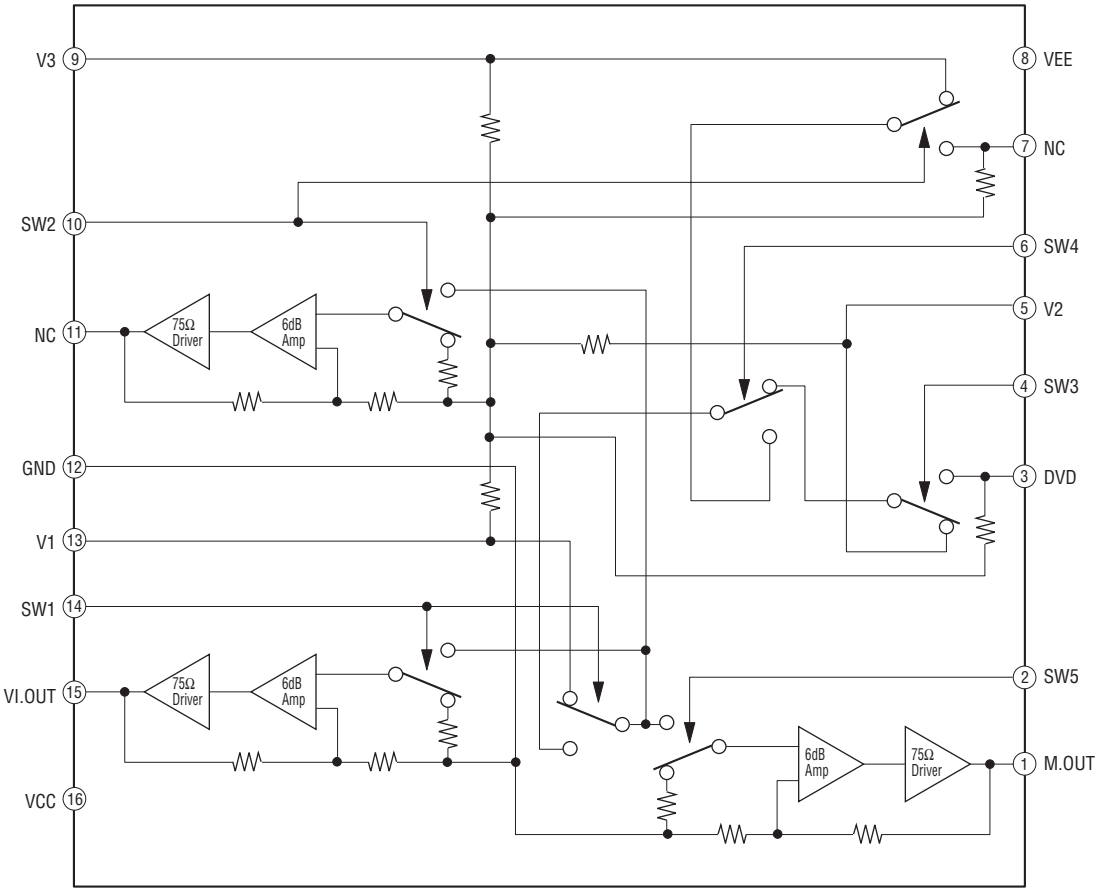
– HDMI SW Board –

IC5005 SN74LVC1G3157DCKR

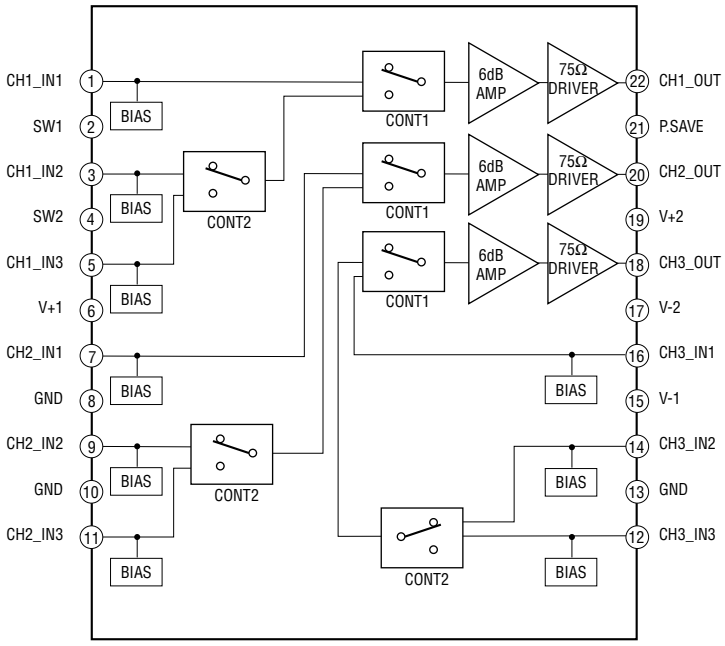


– VIDEO Board –

IC203 NJM2595D



IC304 NJM2586AL



• **IC Pin Function Description**

DIGITAL BOARD IC1101 MB90F045PF-G-9034-SPE1 (SYSTEM CONTROLLER)

Pin No.	Pin Name	I/O	Description
1	DATAO	I	Audio data signal input from DIR
2	GP9	I	GP9 signal input from DSP
3	BST	O	BST signal output to DSP
4	HCS	O	HCS signal output to DSP
5	HACN	I	HACN signal input from DSP
6	XRST	O	Reset signal output to DSP
7	PM	O	PM signal output to DSP
8	GP12	O	GP12 signal output to DSP
9	FL_LAT	O	FL driver latch signal output
10	PCM1609/1803_RST	O	IC reset signal output to DAC and ADC
11	VSS	—	Ground terminal
12	PCM1609_ML	O	Latch signal output to DAC
13	PCM1609_MC	O	Clock signal output to DAC
14	PCM1609_MDI	O	IC data output to DAC
15	PCM1609_MDO	I	IC data input from DAC
16	FL_CLK	O	FL driver clock signal output terminal
17	FL_DATA	O	FL driver data signal output terminal
18	HDOUT	I	HDOUT signal input from DSP
19	HDIN	O	HDIN signal output to DSP
20	HCLK	O	Clock signal output to DSP
21	TUNING_A	I	Tuning encoder input (not used)
22	TUNING_B	I	Tuning encoder input (not used)
23	VCC5	—	Power supply (+3.3V)
24	V_SW1	O	Composite video signal select 1
25	V_SW2	O	Composite video signal select 2
26	C LINK_DET	I	C link detect input
27	FLASH2/C LINK_RX (MICLO)	I	C link Rx data input
28	FLASH1/C LINK_TX (MDCLI)	O	C link Tx data output
29	SDA	I	EEPROM data signal input terminal
30	SCL	O	EEPROM clock signal output terminal
31	ENC_A	I	Input selector Encoder (A) signal input
32	ENC_B	I	Input selector Encoder (B) signal input
33	NC	—	Not used (Open)
34	NC	—	Not used (Open)
35	AVCC	—	Analog power supply (+3.3V)
36	AVRH	I	Analog reference voltage input (+3.3V)
37	AVSS	—	Analog ground terminal
38	ADCC	I	ADCC signal input
39	A/D1	I	Function key push signal input
40	A/D2	I	Function key push signal input
41	VERSION	I	Version setting input terminal (DESTINATION)
42	VSS	—	Ground terminal
43	TUNER SD	I	RDS signal detect input
44	MODEL	I	MODEL select input
45	VAX CTRL	I	Vacs control input

Pin No.	Pin Name	I/O	Description
46	TUNER CLK	O	Tuner clock signal output
47	TUNER DATA	O	Tuner data signal output
48	STOP	I	AC off detect signal input
49	MD0	I	Operation mode setting input
50	MD1	I	Operation mode setting input
51	MD2	I	Operation mode setting input
52	RDS_CLK	I	RDS clock signal input
53	RDS_DATA	I	RDS data signal input
54	SIRCS	I	Data signal input from the remote control sensor
55	HP_DETECT	I	Headphone signal input
56	POWER_KEY	I	Power switch key detect signal input
57	ADCC_INT	I	ADCC interrupt input
58	POWER_RY	O	Power relay control signal output
59	VOL IC_CL	O	Volume IC clock signal output
60	VOL IC_DA	O	Volume IC data and latch signal output
61	PROTECTOR	I	Protector status detect signal input
62	HP_RY	O	Headphone relay control signal output
63	FUSE_DETECT	I	Fuse detect signal input
64	VOL_ENCODER (B)	I	Volume signal input from rotary encoder
65	VOL_ENCODER (A)	I	Volume signal input from rotary encoder
66	FRONT_RY/DG51_FB	O	Front A speaker relay control signal output
67	FRONT_B_RY/DG51_FA	O	Front B speaker control signal output
68	DC-CONTROL	O	Center speaker relay control signal output
69	C/REAR/SB_RY	O	Center, rear, surround back speaker control signal output
70	SW_RY	O	Sub woofer control signal output
71	NC	O	Not used (Open)
72	BRIDGABLE_RY	O	Bridgeable relay control output
73	DO/SD/ST	I	Frequency data signal input from the tuner
74	SLATCH	O	Latch signal output to the tuner
75	V_SW3	O	Composite video signal select 3
76	V_SW4	O	Composite video signal select 4
77	RSTX	I	System reset input
78	COMP MUTE	O	Composite video muting signal output
79	XIA	—	Not used (Open)
80	XOA	—	Ground terminal
81	VSS	—	Ground terminal
82	X0	—	Connection for a crystal resonator
83	X1	—	Connection for a crystal resonator
84	VCC3	—	Power supply (+3.3V)
85	HDMI_S2	O	HDMI select 2 (not used)
86	HDMI_S1	O	HDMI select 1 (not used)
87	HDMI_OED	O	HDMI output enable
88	HDMI_PRE	O	HDMI PRE
89	HDMI_CTRL	O	HDMI board control
90	COMP_S2	O	Composite video select 2
91	COMP_S1	O	Composite video select 1
92	BST_SEL	O	BST signal output terminal
93	XMODE	O	Reset signal output to DIR
94	CKSEL 1	O	CKSEL control signal output to DIR

Pin No.	Pin Name	I/O	Description
95	CLK	O	Clock signal output to DIR
96	CE	O	Chip enable signal output to DIR
97	DI	O	Data signal output to DIR
98	DO	I	Data signal input from DIR
99	ERROR	I	PLL error muting signal input from DIR
100	XSTATE	I	XSTATE data signal input from DIR

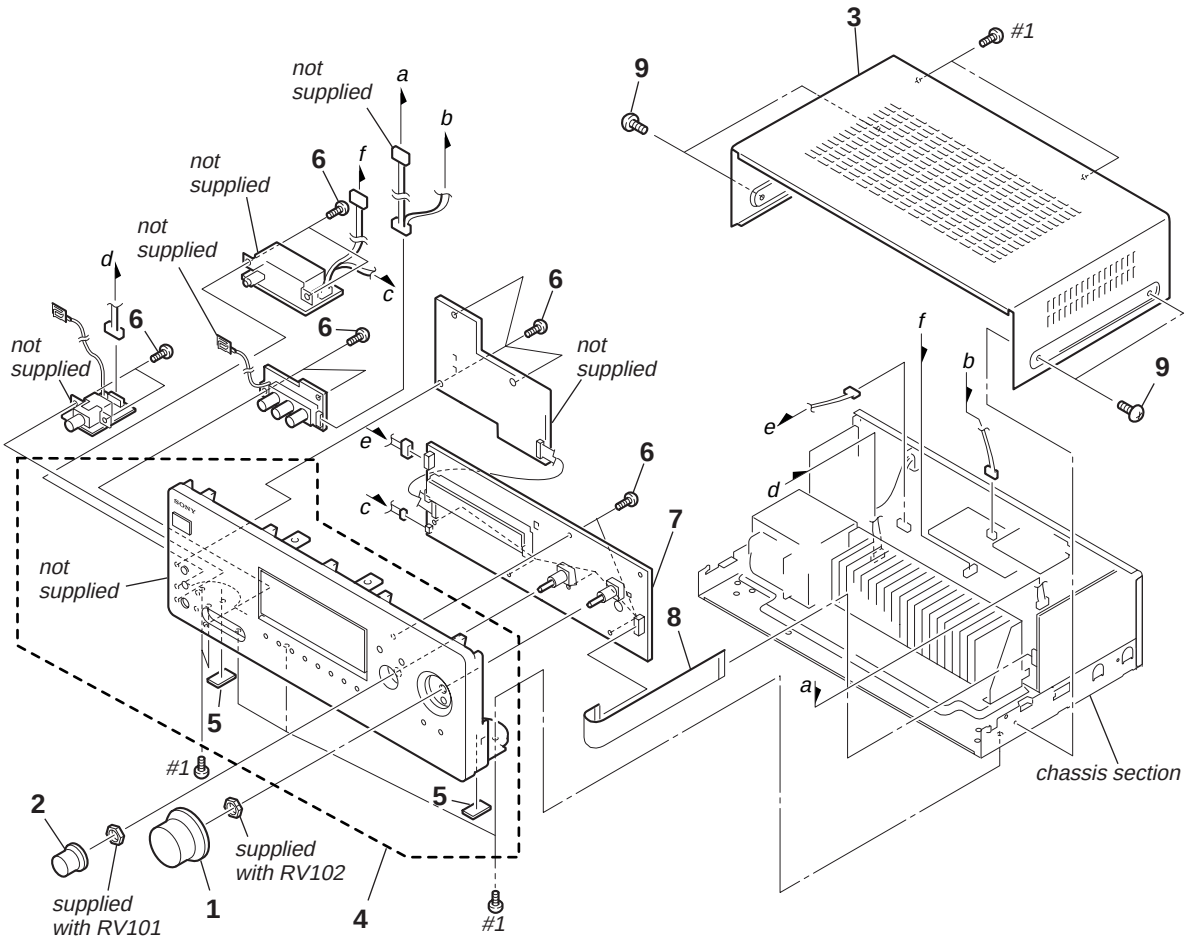
SECTION 5
EXPLODED VIEWS

NOTE:

- -XX and -X mean standardized parts, so they may have some difference from the original one.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

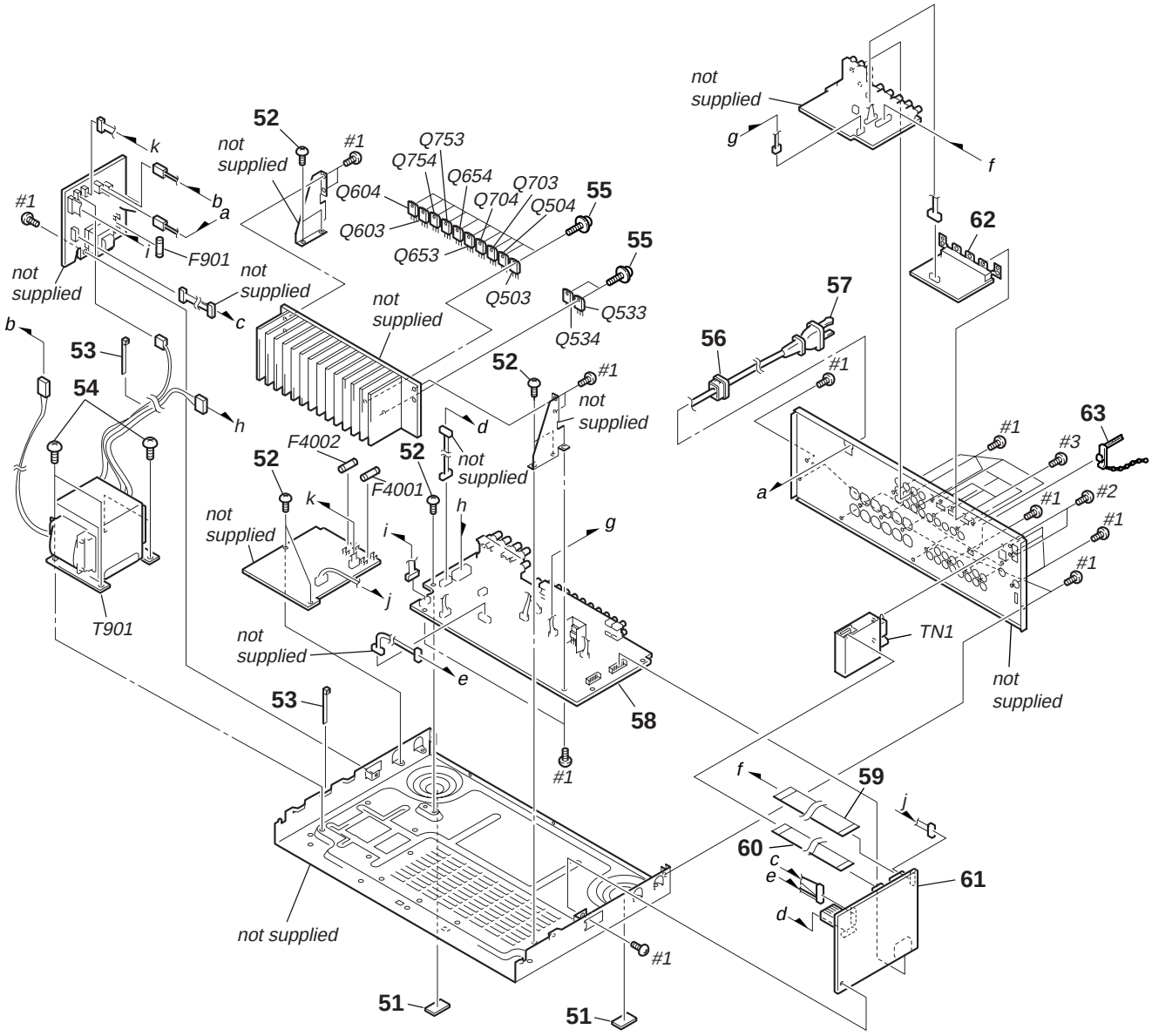
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

5-1. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark
1	2-661-142-11	VOLUME KNOB	
2	2-661-141-11	MENU KNOB	
3	2-661-145-31	CASE	
4	X-2176-059-1	FRONT PANEL ASSY	
5	4-977-358-01	CUSHION	
6	3-087-053-01	+BVTP2.6 (3CR)	
7	A-1222-885-A	DISPLAY BOARD, COMPLETE	
8	1-829-004-51	WIRE (FLAT TYPE) (19 CORE)	
9	3-363-099-11	SCREW (CASE 3 TP2)	
#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	

5-2. CHASSIS SECTION



Ref. No.	Part No.	Description	Remark
51	4-977-358-01	CUSHION	
52	3-077-331-21	+BV3 (3-CR)	
53	3-701-748-00	CLAMP	
54	4-249-675-01	+BV SUMITITE S 4X6 ROUND	
55	3-905-609-01	SCREW (TRANSISTOR)	
* 56	3-703-244-00	BUSHING (2104), CORD	
⚠57	1-777-071-83	CORD, POWER	
58	A-1222-873-A	MAIN BOARD, COMPLETE	
59	1-828-973-11	WIRE (FLAT TYPE) (13 CORE)	
60	1-828-963-11	WIRE (FLAT TYPE) (11 CORE)	
61	A-1222-898-A	DIGITAL BOARD, COMPLETE	
62	A-1158-394-A	HDMI SW BOARD, COMPLETE	
63	4-956-370-12	BAND, PLUG FIXED (UK)	
⚠F4001	1-532-465-33	FUSE(T3.15AL/250V)	
⚠F4002	1-532-465-33	FUSE(T3.15AL/250V)	
⚠F901	1-532-464-33	FUSE(T2.5AL/250V)	
⚠Q503	6-702-390-01	IC MN2488-OPY-MK	

Ref. No.	Part No.	Description	Remark
⚠Q504	6-702-391-01	IC MP1620-OPY-MK	
⚠Q533	6-702-390-01	IC MN2488-OPY-MK	
⚠Q534	6-702-391-01	IC MP1620-OPY-MK	
⚠Q603	6-702-390-01	IC MN2488-OPY-MK	
⚠Q604	6-702-391-01	IC MP1620-OPY-MK	
⚠Q653	6-702-390-01	IC MN2488-OPY-MK	
⚠Q654	6-702-391-01	IC MP1620-OPY-MK	
⚠Q703	6-702-390-01	IC MN2488-OPY-MK	
⚠Q704	6-702-391-01	IC MP1620-OPY-MK	
⚠Q753	6-702-390-01	IC MN2488-OPY-MK	
⚠Q754	6-702-391-01	IC MP1620-OPY-MK	
⚠T901	1-443-525-11	POWER TRANSFORMER	
TN1	1-693-737-11	TUNER (FM/AM)	
#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
#2	7-685-862-09	SCREW +BVTT 2.6X6 (S)	
#3	7-685-871-01	SCREW +BVTT 3X6 (S)	

DCAC DCDC DIGITAL

SECTION 6
ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL: Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F: nonflammable
- COILS
  uH: µH
- CAPACITORS
  uF: µF
- Items marked "*" are not stocked since they are seldom required for routine service.
  Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u: µ, for example:
  uA. . : µA. . uPA. . : µPA. .
  uPB. . : µPB. . uPC. . : µPC. .
  uPD. . : µPD. .

When indicating parts by reference number, please include the board name.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

Ref. No.	Part No.	Description			Remark
		DCAC BOARD			
		**********			
		< CAPACITOR >			
C2001	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C2002	1-126-160-11	ELECT	1uF	20%	50V
C2003	1-164-373-11	CERAMIC CHIP	0.033uF		25V
C2005	1-162-921-11	CERAMIC CHIP	33PF	5%	50V
C2006	1-126-160-11	ELECT	1uF	20%	50V
C2008	1-162-924-11	CERAMIC CHIP	56PF	5%	50V
C2010	1-164-373-11	CERAMIC CHIP	0.033uF		25V
C2011	1-162-995-11	CERAMIC CHIP	0.022uF		50V
C2012	1-162-995-11	CERAMIC CHIP	0.022uF		50V
C2013	1-126-160-11	ELECT	1uF	20%	50V
C2014	1-124-465-00	ELECT	0.47uF	20%	50V
C2018	1-164-156-11	CERAMIC CHIP	0.1uF		25V
		< DIODE >			
D2013	8-719-988-61	DIODE 1SS355TE-17			
D2014	8-719-988-61	DIODE 1SS355TE-17			
		< IC >			
IC2000	8-759-710-97	IC NJM4565M-D			
		< JACK >			
J2000	1-820-056-11	SMALL TYPE JACK (AUTO CAL MIC)			
		< RESISTOR >			
R2000	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2001	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2003	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2005	1-216-857-11	METAL CHIP	1M	5%	1/10W
R2006	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2007	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2008	1-216-854-11	METAL CHIP	560K	5%	1/10W
R2010	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2015	1-216-839-11	METAL CHIP	33K	5%	1/10W
R2016	1-216-835-11	METAL CHIP	15K	5%	1/10W
R2017	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2018	1-216-822-11	METAL CHIP	1.2K	5%	1/10W
R2019	1-216-825-11	METAL CHIP	2.2K	5%	1/10W

Ref. No.	Part No.	Description			Remark
		DCDC BOARD			
		**********			
	1-533-313-11	FUSE HOLDER			
		< CAPACITOR >			
C4002	1-128-549-11	ELECT	3300uF	20%	35V
C4003	1-115-814-11	ELECT	0.001F	20%	35V
C4004	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C4005	1-128-950-21	ELECT	1000uF	20%	16V
		< DIODE >			
D4001	8-719-077-77	DIODE D3SB60F3			
D4803	8-719-080-53	DIODE RK36LF-B3			
		< IC >			
IC4001	8-759-474-09	IC SI-8050S-LF1101			
		< COIL >			
L4000	1-456-545-11	INDUCTOR	100uH		
L4001	1-456-545-11	INDUCTOR	100uH		
		< RESISTOR >			
R4000	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R4001	1-216-817-11	METAL CHIP	470	5%	1/10W
R4002	1-216-819-11	METAL CHIP	680	5%	1/10W
	A-1222-898-A	DIGITAL BOARD, COMPLETE			
		**********			
	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S			
		< CAPACITOR >			
C1001	1-126-925-91	ELECT	470uF	20%	10V
C1002	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C1004	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1005	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1019	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1021	1-137-980-91	CERAMIC CHIP	0.47uF	10%	50V
C1022	1-135-372-31	ELECT	470uF	20%	10V
C1031	1-137-980-91	CERAMIC CHIP	0.47uF	10%	50V
C1032	1-135-372-31	ELECT	470uF	20%	10V
C1067	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C1068	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C1100	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1102	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V

Ref. No.	Part No.	Description			Remark
C1103	1-126-947-11	ELECT	47uF	20%	35V
C1107	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1108	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1118	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1119	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1120	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1121	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1122	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1123	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1124	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1129	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C1131	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C1132	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C1137	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1138	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1139	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1140	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1142	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1144	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C1145	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C1149	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C1171	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C1172	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C1253	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C1254	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C1255	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C1299	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1301	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1302	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C1303	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1304	1-107-726-91	CERAMIC CHIP	0.01uF	10%	16V
C1305	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1306	1-126-947-11	ELECT	47uF	20%	35V
C1308	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1309	1-162-918-11	CERAMIC CHIP	18PF	5%	50V
C1310	1-162-918-11	CERAMIC CHIP	18PF	5%	50V
C1312	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1313	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C1314	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1315	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1351	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1354	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1355	1-104-662-91	ELECT	22uF	20%	25V
C1358	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1359	1-126-916-11	ELECT	1000uF	20%	6.3V
C1361	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1362	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C1401	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1402	1-126-947-11	ELECT	47uF	20%	35V
C1403	1-126-964-11	ELECT	10uF	20%	50V
C1404	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1405	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1406	1-126-964-11	ELECT	10uF	20%	50V
C1407	1-126-964-11	ELECT	10uF	20%	50V
C1408	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1409	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1411	1-162-963-11	CERAMIC CHIP	680PF	10%	50V
C1413	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C1414	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1415	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1418	1-126-964-11	ELECT	10uF	20%	50V
C1420	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1422	1-162-963-11	CERAMIC CHIP	680PF	10%	50V
C1423	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C1428	1-126-964-11	ELECT	10uF	20%	50V
C1432	1-162-963-11	CERAMIC CHIP	680PF	10%	50V
C1433	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C1438	1-126-964-11	ELECT	10uF	20%	50V
C1441	1-162-963-11	CERAMIC CHIP	680PF	10%	50V
C1442	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C1448	1-126-964-11	ELECT	10uF	20%	50V
C1450	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1451	1-162-963-11	CERAMIC CHIP	680PF	10%	50V
C1453	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C1454	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1455	1-126-964-11	ELECT	10uF	20%	50V
C1457	1-126-964-11	ELECT	10uF	20%	50V
C1458	1-126-964-11	ELECT	10uF	20%	50V
C1460	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1461	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1462	1-162-963-11	CERAMIC CHIP	680PF	10%	50V
C1463	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C1468	1-126-964-11	ELECT	10uF	20%	50V
C1471	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1472	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1473	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1474	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1475	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1478	1-126-964-11	ELECT	10uF	20%	50V
C1481	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C1483	1-162-963-11	CERAMIC CHIP	680PF	10%	50V
C1487	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C1491	1-126-964-11	ELECT	10uF	20%	50V
C1494	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1495	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C1501	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1502	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1503	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1504	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1505	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1506	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1507	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1508	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1509	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1510	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1511	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1513	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1514	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1515	1-126-925-91	ELECT	470uF	20%	10V
C1516	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1517	1-126-925-91	ELECT	470uF	20%	10V
C1518	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1519	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1520	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1521	1-162-920-11	CERAMIC CHIP	27PF	5%	50V

DIGITAL

Ref. No.	Part No.	Description			Remark
C1522	1-162-920-11	CERAMIC CHIP	27PF	5%	50V
C1525	1-126-925-91	ELECT	470uF	20%	10V
C1547	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C1557	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C1566	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C1567	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C1568	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C1569	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C1604	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1605	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1620	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1639	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1905	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1906	1-126-925-91	ELECT	470uF	20%	10V
C1908	1-126-925-91	ELECT	470uF	20%	10V
C1910	1-165-722-11	ELECT	100uF	20%	10V
C1911	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1913	1-137-980-91	CERAMIC CHIP	0.47uF	10%	50V
C1914	1-126-947-11	ELECT	47uF	20%	35V
C1919	1-126-965-11	ELECT	22uF	20%	50V
C1920	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1921	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
		< CONNECTOR >			
CNP503	1-691-770-11	PLUG (MICRO CONNECTOR) 8P			
* CNP505	1-564-510-11	PLUG, CONNECTOR 7P			
* CNP512	1-564-506-11	PLUG, CONNECTOR 3P			
CNS501	1-573-829-11	CONNECTOR, BOARD TO BOARD 15P			
CNS502	1-573-825-11	CONNECTOR, BOARD TO BOARD 11P			
CNS504	1-784-731-11	CONNECTOR, FFC 9P			
CNS508	1-568-830-11	CONNECTOR, FFC 11P			
CNS509	1-784-774-11	CONNECTOR, FFC 13P			
CNS514	1-784-780-11	CONNECTOR, FFC 19P			
		< DIODE >			
D1001	8-719-053-18	DIODE 1SR154-400TE-25			
D1003	8-719-049-09	DIODE 1SS367-T3SONY			
D1004	8-719-049-09	DIODE 1SS367-T3SONY			
D1107	8-719-404-50	DIODE MA111-TX			
D1108	8-719-404-50	DIODE MA111-TX			
D1109	8-719-404-50	DIODE MA111-TX			
D1110	8-719-404-50	DIODE MA111-TX			
D1111	8-719-404-50	DIODE MA111-TX			
D1301	8-719-404-50	DIODE MA111-TX			
D1302	8-719-404-50	DIODE MA111-TX			
D1501	8-719-049-09	DIODE 1SS367-T3SONY			
D1502	8-719-049-09	DIODE 1SS367-T3SONY			
D1503	8-719-049-09	DIODE 1SS367-T3SONY			
D1504	8-719-049-09	DIODE 1SS367-T3SONY			
		< FERRITE BEAD >			
FB1101	1-400-862-11	BEAD, FERRITE			
FB1302	1-400-862-11	BEAD, FERRITE			
FB1305	1-400-862-11	BEAD, FERRITE			
FB1308	1-400-862-11	BEAD, FERRITE			
FB1310	1-400-862-11	BEAD, FERRITE			
FB1350	1-400-862-11	BEAD, FERRITE			
FB1403	1-400-862-11	BEAD, FERRITE			

Ref. No.	Part No.	Description			Remark
FB1405	1-400-862-11	BEAD, FERRITE			
FB1452	1-400-862-11	BEAD, FERRITE			
FB1453	1-400-862-11	BEAD, FERRITE			
FB1501	1-400-862-11	BEAD, FERRITE			
FB1502	1-400-862-11	BEAD, FERRITE			
FB1503	1-400-862-11	BEAD, FERRITE			
FB1504	1-469-670-21	FERRITE, EMI (SMD) (2012)			
FB1505	1-400-862-11	BEAD, FERRITE			
		< IC >			
IC1001	8-759-231-53	IC TA7805S			
⚠IC1031	6-705-469-01	IC BA50BC0FP-E2			
IC1101	6-807-153-01	IC MB90F045PF-G-9034-SPE1			
IC1111	6-702-913-01	IC S-80929CNMC-G8ZT2G			
IC1131	6-705-866-01	IC BR24L16FJ-WE2			
IC1301	8-759-825-15	IC LC89056W-E			
IC1303	8-759-096-87	IC TC7WU04FU (TE12R)			
IC1351	6-600-466-01	IC TORX147L (SONY) (VIDEO 2 / BD IN)			
IC1354	6-600-466-01	IC TORX147L (SONY) (SAT IN)			
IC1401	6-707-608-01	IC PCM1803DBR			
IC1403	8-759-710-97	IC NJM4565M-D			
IC1404	8-759-710-97	IC NJM4565M-D			
IC1405	8-759-710-97	IC NJM4565M-D			
IC1406	8-759-710-97	IC NJM4565M-D			
IC1452	6-708-785-01	IC PCM1609APT			
IC1501	6-705-900-01	IC CXD9718BQ			
IC1502	6-709-278-01	IC IS61WV6416BLL-12TLI			
IC1503	8-759-546-74	IC TC7WH157FU (TE12R)			
⚠IC1902	8-759-231-56	IC TA7809S			
⚠IC1903	6-701-887-02	IC SI-3004KWF			
⚠IC1904	6-705-468-01	IC BA33BC0FP-E2			
IC1906	6-707-745-10	IC SI-3050KM-TL			
		< JACK >			
J1301	1-793-446-21	JACK, PIN 1P (COAXIAL)			
J1311	1-817-615-21	CONNECTOR BOARD TO BOARD 18P			(DMPORT)
		< JUMPER RESISTOR >			
JR1002	1-211-950-11	SHORT CHIP	0		
JR1005	1-216-864-11	SHORT CHIP	0		
JR1008	1-216-864-11	SHORT CHIP	0		
JR1009	1-211-950-11	SHORT CHIP	0		
JR1010	1-211-950-11	SHORT CHIP	0		
JR1020	1-216-864-11	SHORT CHIP	0		
JR1511	1-400-862-11	BEAD, FERRITE			
		< RESISTOR >			
R1010	1-216-809-11	METAL CHIP	100	5%	1/10W
R1011	1-216-809-11	METAL CHIP	100	5%	1/10W
R1012	1-216-809-11	METAL CHIP	100	5%	1/10W
R1013	1-216-809-11	METAL CHIP	100	5%	1/10W
R1014	1-216-809-11	METAL CHIP	100	5%	1/10W
R1015	1-216-809-11	METAL CHIP	100	5%	1/10W
R1035	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R1039	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1041	1-216-809-11	METAL CHIP	100	5%	1/10W
R1042	1-216-809-11	METAL CHIP	100	5%	1/10W

Ref. No.	Part No.	Description			Remark
R1049	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1050	1-216-809-11	METAL CHIP	100	5%	1/10W
R1058	1-216-813-11	METAL CHIP	220	5%	1/10W
R1059	1-216-813-11	METAL CHIP	220	5%	1/10W
R1061	1-216-809-11	METAL CHIP	100	5%	1/10W
R1062	1-216-809-11	METAL CHIP	100	5%	1/10W
R1065	1-216-809-11	METAL CHIP	100	5%	1/10W
R1066	1-216-809-11	METAL CHIP	100	5%	1/10W
R1067	1-216-809-11	METAL CHIP	100	5%	1/10W
R1068	1-216-809-11	METAL CHIP	100	5%	1/10W
R1072	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R1073	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R1076	1-216-809-11	METAL CHIP	100	5%	1/10W
R1077	1-216-809-11	METAL CHIP	100	5%	1/10W
R1078	1-216-809-11	METAL CHIP	100	5%	1/10W
R1083	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1084	1-216-809-11	METAL CHIP	100	5%	1/10W
R1088	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1096	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1105	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1106	1-216-809-11	METAL CHIP	100	5%	1/10W
R1107	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R1108	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R1110	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R1111	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R1112	1-216-809-11	METAL CHIP	100	5%	1/10W
R1114	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R1117	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1118	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1120	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1121	1-216-809-11	METAL CHIP	100	5%	1/10W
R1122	1-216-809-11	METAL CHIP	100	5%	1/10W
R1123	1-216-809-11	METAL CHIP	100	5%	1/10W
R1124	1-216-809-11	METAL CHIP	100	5%	1/10W
R1125	1-216-809-11	METAL CHIP	100	5%	1/10W
R1126	1-216-809-11	METAL CHIP	100	5%	1/10W
R1127	1-216-809-11	METAL CHIP	100	5%	1/10W
R1128	1-216-809-11	METAL CHIP	100	5%	1/10W
R1129	1-216-809-11	METAL CHIP	100	5%	1/10W
R1134	1-216-809-11	METAL CHIP	100	5%	1/10W
R1135	1-216-809-11	METAL CHIP	100	5%	1/10W
R1140	1-216-809-11	METAL CHIP	100	5%	1/10W
R1143	1-216-809-11	METAL CHIP	100	5%	1/10W
R1144	1-216-809-11	METAL CHIP	100	5%	1/10W
R1150	1-216-809-11	METAL CHIP	100	5%	1/10W
R1151	1-216-809-11	METAL CHIP	100	5%	1/10W
R1152	1-216-809-11	METAL CHIP	100	5%	1/10W
R1153	1-216-809-11	METAL CHIP	100	5%	1/10W
R1154	1-216-809-11	METAL CHIP	100	5%	1/10W
R1156	1-216-864-11	SHORT CHIP	0		
R1157	1-216-864-11	SHORT CHIP	0		
R1159	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R1160	1-216-809-11	METAL CHIP	100	5%	1/10W
R1161	1-216-809-11	METAL CHIP	100	5%	1/10W
R1164	1-216-864-11	SHORT CHIP	0		
R1175	1-216-809-11	METAL CHIP	100	5%	1/10W
R1179	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1180	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1181	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1182	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1183	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1184	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1185	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1186	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1187	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1188	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1189	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1190	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1191	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1192	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1193	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1194	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R1201	1-216-837-11	METAL CHIP	22K	5%	1/10W
R1253	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1260	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1261	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1301	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R1302	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1303	1-216-839-11	METAL CHIP	33K	5%	1/10W
R1304	1-216-809-11	METAL CHIP	100	5%	1/10W
R1305	1-216-819-11	METAL CHIP	680	5%	1/10W
R1306	1-216-801-11	METAL CHIP	22	5%	1/10W
R1307	1-216-809-11	METAL CHIP	100	5%	1/10W
R1308	1-216-809-11	METAL CHIP	100	5%	1/10W
R1309	1-216-809-11	METAL CHIP	100	5%	1/10W
R1310	1-216-857-11	METAL CHIP	1M	5%	1/10W
R1311	1-216-809-11	METAL CHIP	100	5%	1/10W
R1312	1-216-809-11	METAL CHIP	100	5%	1/10W
R1313	1-216-809-11	METAL CHIP	100	5%	1/10W
R1314	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1318	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1319	1-216-864-11	SHORT CHIP	0		
R1321	1-216-864-11	SHORT CHIP	0		
R1323	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1325	1-216-864-11	SHORT CHIP	0		
R1351	1-216-809-11	METAL CHIP	100	5%	1/10W
R1352	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1353	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1354	1-216-809-11	METAL CHIP	100	5%	1/10W
R1355	1-218-285-11	METAL CHIP	75	5%	1/10W
R1356	1-216-817-11	METAL CHIP	470	5%	1/10W
R1357	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1359	1-216-809-11	METAL CHIP	100	5%	1/10W
R1360	1-216-809-11	METAL CHIP	100	5%	1/10W
R1401	1-216-809-11	METAL CHIP	100	5%	1/10W
R1407	1-216-809-11	METAL CHIP	100	5%	1/10W
R1409	1-216-864-11	SHORT CHIP	0		
R1410	1-216-817-11	METAL CHIP	470	5%	1/10W
R1411	1-216-817-11	METAL CHIP	470	5%	1/10W
R1414	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R1416	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1421	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R1424	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R1425	1-216-864-11	SHORT CHIP	0		
R1426	1-216-821-11	METAL CHIP	1K	5%	1/10W

DIGITAL **DISPLAY**

Ref. No.	Part No.	Description			Remark
R1434	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R1435	1-216-864-11	SHORT CHIP	0		
R1436	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1444	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R1445	1-216-864-11	SHORT CHIP	0		
R1446	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1454	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R1455	1-216-864-11	SHORT CHIP	0		
R1463	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R1464	1-216-864-11	SHORT CHIP	0		
R1466	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1469	1-216-809-11	METAL CHIP	100	5%	1/10W
R1470	1-216-832-11	METAL CHIP	8.2K	5%	1/10W
R1473	1-216-832-11	METAL CHIP	8.2K	5%	1/10W
R1474	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1476	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1483	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R1484	1-216-864-11	SHORT CHIP	0		
R1486	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1490	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R1491	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R1492	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R1493	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R1494	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R1495	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R1501	1-216-809-11	METAL CHIP	100	5%	1/10W
R1502	1-216-809-11	METAL CHIP	100	5%	1/10W
R1503	1-216-813-11	METAL CHIP	220	5%	1/10W
R1504	1-216-809-11	METAL CHIP	100	5%	1/10W
R1505	1-216-809-11	METAL CHIP	100	5%	1/10W
R1506	1-216-809-11	METAL CHIP	100	5%	1/10W
R1507	1-216-809-11	METAL CHIP	100	5%	1/10W
R1508	1-216-809-11	METAL CHIP	100	5%	1/10W
R1509	1-216-809-11	METAL CHIP	100	5%	1/10W
R1510	1-216-809-11	METAL CHIP	100	5%	1/10W
R1511	1-216-809-11	METAL CHIP	100	5%	1/10W
R1512	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1513	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1514	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1515	1-216-857-11	METAL CHIP	1M	5%	1/10W
R1523	1-216-813-11	METAL CHIP	220	5%	1/10W
R1524	1-216-864-11	SHORT CHIP	0		
R1530	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1541	1-216-813-11	METAL CHIP	220	5%	1/10W
R1555	1-216-813-11	METAL CHIP	220	5%	1/10W
R1556	1-216-809-11	METAL CHIP	100	5%	1/10W
R1557	1-216-813-11	METAL CHIP	220	5%	1/10W
R1570	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1571	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1572	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1573	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1574	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1602	1-216-864-11	SHORT CHIP	0		
R1635	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1636	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1637	1-216-864-11	SHORT CHIP	0		
R1640	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1641	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1642	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1643	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1644	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1645	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1940	1-216-864-11	SHORT CHIP	0		
R1941	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1943	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1947	1-216-801-11	METAL CHIP	22	5%	1/10W
R1948	1-216-809-11	METAL CHIP	100	5%	1/10W
		< COMPOSITION CIRCUIT BLOCK >			
RB1500	1-233-576-11	RES, CHIP NETWORK	100 (3216)		
RB1501	1-233-576-11	RES, CHIP NETWORK	100 (3216)		
RB1502	1-233-576-11	RES, CHIP NETWORK	100 (3216)		
RB1503	1-233-576-11	RES, CHIP NETWORK	100 (3216)		
RB1504	1-233-576-11	RES, CHIP NETWORK	100 (3216)		
RB1506	1-233-576-11	RES, CHIP NETWORK	100 (3216)		
RB1507	1-233-576-11	RES, CHIP NETWORK	100 (3216)		
RB1508	1-233-576-11	RES, CHIP NETWORK	100 (3216)		
		< VIBRATOR >			
X1101	1-813-448-21	PIEZOELECTRIC OSCILLATOR (24MHz)			
X1301	1-795-126-21	VIBRATOR, CRYSTAL (12.288MHz)			
X1502	1-813-276-21	QUARTZ CRYSTAL (13.9MHz)			
**********					
	A-1222-885-A	DISPLAY BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C110	1-162-286-31	CERAMIC	220PF	10%	50V
C111	1-162-286-31	CERAMIC	220PF	10%	50V
C112	1-162-286-31	CERAMIC	220PF	10%	50V
C114	1-127-888-11	CERAMIC	0.1uF	10%	50V
C115	1-126-964-11	ELECT	10uF	20%	50V
C144	1-127-888-11	CERAMIC	0.1uF	10%	50V
C145	1-127-888-11	CERAMIC	0.1uF	10%	50V
C147	1-162-286-31	CERAMIC	220PF	10%	50V
C148	1-126-964-11	ELECT	10uF	20%	50V
C149	1-162-286-31	CERAMIC	220PF	10%	50V
C160	1-127-888-11	CERAMIC	0.1uF	10%	50V
C162	1-127-888-11	CERAMIC	0.1uF	10%	50V
C164	1-162-286-31	CERAMIC	220PF	10%	50V
C165	1-126-964-11	ELECT	10uF	20%	50V
		< CONNECTOR >			
* CN104	1-691-746-11	CONNECTOR, BOARD TO BOARD 5P			
CNP106	1-564-718-11	PIN, CONNECTOR (SMALL TYPE) 2P			
CNS101	1-784-780-11	CONNECTOR, FFC 19P			
		< FLUORESCENT INDICATOR TUBE >			
FL101	1-519-927-11	VACUUM FLOURESCENT DISPLAY			
		< IC >			
IC100	8-759-643-83	IC uPD16315GB-3BS			
IC101	8-759-243-51	IC TC74ACT08P			
IC103	6-600-349-31	IC NJL24H400A			

Ref. No.	Part No.	Description			Remark
		< RESISTOR >			
R101	1-249-409-11	CARBON	220	5%	1/4W
R102	1-249-411-11	CARBON	330	5%	1/4W
R103	1-249-413-11	CARBON	470	5%	1/4W
R104	1-249-415-11	CARBON	680	5%	1/4W
R105	1-247-831-91	CARBON	1K	5%	1/4W
R106	1-249-419-11	CARBON	1.5K	5%	1/4W
R107	1-249-421-11	CARBON	2.2K	5%	1/4W
R108	1-249-409-11	CARBON	220	5%	1/4W
R109	1-249-411-11	CARBON	330	5%	1/4W
R110	1-249-413-11	CARBON	470	5%	1/4W
R115	1-247-807-31	CARBON	100	5%	1/4W
R116	1-247-807-31	CARBON	100	5%	1/4W
R117	1-247-807-31	CARBON	100	5%	1/4W
R118	1-249-440-11	CARBON	82K	5%	1/4W
R119	1-247-807-31	CARBON	100	5%	1/4W
R120	1-249-393-11	CARBON	10	5%	1/4W
R197	1-249-384-11	CARBON	1.8	5%	1/4W F
R198	1-249-384-11	CARBON	1.8	5%	1/4W F
		< VARIABLE RESISTOR >			
RV101	1-418-817-11	ENCODER, ROTARY (INPUT SELECTOR)			
RV102	1-418-725-41	ENCODER, ROTARY (12 TYPE) (MASTER VOLUME)			
		< SWITCH >			
S101	1-771-410-21	SWITCH, TACTILE (MUTING)			
S102	1-771-410-21	SWITCH, TACTILE (AUTOCAL)			
S103	1-771-410-21	SWITCH, TACTILE (INPUT MODE)			
S104	1-771-410-21	SWITCH, TACTILE (DISPLAY)			
S105	1-771-410-21	SWITCH, TACTILE (MUSIC)			
S106	1-771-410-21	SWITCH, TACTILE (MOVE)			
S107	1-771-410-21	SWITCH, TACTILE (A.F.D)			
S108	1-771-410-21	SWITCH, TACTILE (2CH)			
S109	1-771-410-21	SWITCH, TACTILE (TUNING +)			
S110	1-771-410-21	SWITCH, TACTILE (TUNING –)			
S111	1-771-410-21	SWITCH, TACTILE (TUNING MODE)			
S112	1-771-410-21	SWITCH, TACTILE (MEMORY / ENTER)			
**********					
	A-1158-394-A	HDMI SW BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C5001	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C5002	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C5003	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C5004	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C5005	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C5006	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C5007	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C5008	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C5009	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C5010	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C5011	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C5012	1-112-788-11	ELECT CHIP	330uF	20%	6.3V
C5013	1-128-934-91	CERAMIC CHIP	0.33uF	20%	10V
C5014	1-112-788-11	ELECT CHIP	330uF	20%	6.3V

Ref. No.	Part No.	Description			Remark
C5015	1-128-994-21	ELECT CHIP	47uF	20%	10V
C5016	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C5017	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C5018	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C5019	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C5020	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C5021	1-117-681-11	ELECT CHIP	100uF	20%	16V
C5022	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C5023	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C5024	1-128-934-91	CERAMIC CHIP	0.33uF	20%	10V
C5027	1-128-994-21	ELECT CHIP	47uF	20%	10V
		< CONNECTOR >			
CN5001	1-820-735-11	HDMI CONNECTOR (DVD IN)			
CN5002	1-820-735-11	HDMI CONNECTOR (VIDEO 2 / BD IN)			
CN5003	1-820-735-11	HDMI CONNECTOR (OUT)			
* CN5004	1-770-470-21	PIN, CONNECTOR (PC BOARD) 6P			
		< IC >			
IC5001	6-709-221-01	IC TMDS341PFCR			
IC5002	6-705-337-01	IC TK11150CSCL-G			
IC5003	6-705-468-01	IC BA33BC0FP-E2			
IC5004	6-704-099-01	IC TC7WZ08FK (TE85R)			
IC5005	6-707-207-01	IC SN74LVC1G3157DCKR			
IC5006	6-706-740-01	IC BA00BC0WFP-E2			
		< COIL >			
L5013	1-400-862-11	BEAD, FERRITE			
		< RESISTOR >			
R5001	1-218-861-11	METAL CHIP	3.9K	0.5%	1/10W
R5002	1-218-844-11	METAL CHIP	750	0.5%	1/10W
R5003	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5004	1-216-864-11	SHORT CHIP	0		
R5005	1-216-864-11	SHORT CHIP	0		
R5006	1-216-864-11	SHORT CHIP	0		
R5007	1-216-864-11	SHORT CHIP	0		
R5008	1-216-864-11	SHORT CHIP	0		
R5009	1-216-864-11	SHORT CHIP	0		
R5010	1-216-864-11	SHORT CHIP	0		
R5011	1-216-864-11	SHORT CHIP	0		
R5014	1-216-864-11	SHORT CHIP	0		
R5015	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5016	1-216-864-11	SHORT CHIP	0		
R5017	1-216-864-11	SHORT CHIP	0		
R5018	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5019	1-216-864-11	SHORT CHIP	0		
R5020	1-216-864-11	SHORT CHIP	0		
R5022	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5024	1-216-864-11	SHORT CHIP	0		
R5025	1-216-864-11	SHORT CHIP	0		
R5026	1-216-809-11	METAL CHIP	100	5%	1/10W
R5027	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5028	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5029	1-216-841-11	METAL CHIP	47K	5%	1/10W
R5030	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5042	1-216-829-11	METAL CHIP	4.7K	5%	1/10W

HDMI SW **HEADPHONE** **MAIN**

Ref. No.	Part No.	Description			Remark
R5043	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5047	1-216-864-11	SHORT CHIP	0		
R5048	1-216-864-11	SHORT CHIP	0		
R5049	1-216-864-11	SHORT CHIP	0		
R5050	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5051	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R5052	1-216-841-11	METAL CHIP	47K	5%	1/10W
R5053	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R5054	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5055	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5056	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5060	1-216-864-11	SHORT CHIP	0		
R5061	1-216-864-11	SHORT CHIP	0		
R5068	1-216-845-11	METAL CHIP	100K	5%	1/10W
R5069	1-216-845-11	METAL CHIP	100K	5%	1/10W
R5072	1-216-809-11	METAL CHIP	100	5%	1/10W
R5073	1-216-864-11	SHORT CHIP	0		
R5074	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
**********					
		HEADPHONE BOARD			
		**********			
		< CAPACITOR >			
C790	1-127-888-11	CERAMIC	0.1uF	10%	50V
C791	1-127-888-11	CERAMIC	0.1uF	10%	50V
		< CONNECTOR >			
* CNP790	1-564-508-11	PLUG, CONNECTOR 5P			
		< JACK >			
J790	1-815-314-21	JACK (PHONES)			
		< TEST PIN >			
* TP790	1-690-880-31	LEAD (WITH CONNECTOR)			
**********					
	A-1222-873-A	MAIN BOARD, COMPLETE			
		**********			
	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S			
		< CAPACITOR >			
C400	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C403	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C408	1-126-963-11	ELECT	4.7uF	20%	50V
C409	1-126-963-11	ELECT	4.7uF	20%	50V
C444	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C453	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C458	1-126-963-11	ELECT	4.7uF	20%	50V
C459	1-126-963-11	ELECT	4.7uF	20%	50V
C463	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C464	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C468	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C469	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C471	1-126-963-11	ELECT	4.7uF	20%	50V
C481	1-126-964-11	ELECT	10uF	20%	50V
C484	1-126-964-11	ELECT	10uF	20%	50V

Ref. No.	Part No.	Description			Remark
C485	1-126-964-11	ELECT	10uF	20%	50V
C488	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C490	1-126-964-11	ELECT	10uF	20%	50V
C492	1-126-964-11	ELECT	10uF	20%	50V
C493	1-126-964-11	ELECT	10uF	20%	50V
C495	1-126-964-11	ELECT	10uF	20%	50V
C501	1-126-963-11	ELECT	4.7uF	20%	50V
C503	1-165-722-11	ELECT	100uF	20%	10V
C504	1-107-583-11	CERAMIC	3PF	0.25PF	500V
C505	1-102-233-00	CERAMIC	33PF	10%	500V
C506	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C507	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C510	1-126-947-11	ELECT	47uF	20%	35V
C511	1-136-157-00	FILM	0.022uF	5%	50V
C516	1-162-815-11	CERAMIC	47PF	5%	500V
C517	1-162-815-11	CERAMIC	47PF	5%	500V
C519	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C529	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C531	1-136-157-00	FILM	0.022uF	5%	50V
C539	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C540	1-126-964-11	ELECT	10uF	20%	50V
C541	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C553	1-165-722-11	ELECT	100uF	20%	10V
C554	1-107-583-11	CERAMIC	3PF	0.25PF	500V
C561	1-126-963-11	ELECT	4.7uF	20%	50V
C565	1-102-233-00	CERAMIC	33PF	10%	500V
C566	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C567	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C570	1-126-947-11	ELECT	47uF	20%	35V
C576	1-162-815-11	CERAMIC	47PF	5%	500V
C577	1-162-815-11	CERAMIC	47PF	5%	500V
C580	1-126-964-11	ELECT	10uF	20%	50V
C581	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C601	1-126-963-11	ELECT	4.7uF	20%	50V
C603	1-165-722-11	ELECT	100uF	20%	10V
C604	1-107-583-11	CERAMIC	3PF	0.25PF	500V
C605	1-102-233-00	CERAMIC	33PF	10%	500V
C606	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C607	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C610	1-126-947-11	ELECT	47uF	20%	35V
C611	1-136-157-00	FILM	0.022uF	5%	50V
C619	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C620	1-162-815-11	CERAMIC	47PF	5%	500V
C621	1-162-815-11	CERAMIC	47PF	5%	500V
C640	1-126-964-11	ELECT	10uF	20%	50V
C642	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C651	1-126-963-11	ELECT	4.7uF	20%	50V
C653	1-165-722-11	ELECT	100uF	20%	10V
C654	1-107-583-11	CERAMIC	3PF	0.25PF	500V
C655	1-102-233-00	CERAMIC	33PF	10%	500V
C656	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C657	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C660	1-126-947-11	ELECT	47uF	20%	35V
C661	1-136-157-00	FILM	0.022uF	5%	50V
C666	1-162-815-11	CERAMIC	47PF	5%	500V
C669	1-162-815-11	CERAMIC	47PF	5%	500V
C670	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C680	1-126-964-11	ELECT	10uF	20%	50V

Ref. No.	Part No.	Description			Remark
C681	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C691	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C701	1-126-963-11	ELECT	4.7uF	20%	50V
C702	1-126-964-11	ELECT	10uF	20%	50V
C703	1-165-722-11	ELECT	100uF	20%	10V
C704	1-107-583-11	CERAMIC	3PF	0.25PF	500V
C705	1-102-233-00	CERAMIC	33PF	10%	500V
C706	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C707	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C710	1-126-947-11	ELECT	47uF	20%	35V
C711	1-136-157-00	FILM	0.022uF	5%	50V
C716	1-162-815-11	CERAMIC	47PF	5%	500V
C717	1-162-815-11	CERAMIC	47PF	5%	500V
C720	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C721	1-126-923-91	ELECT	220uF	20%	10V
C722	1-126-964-11	ELECT	10uF	20%	50V
C729	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C732	1-128-582-11	ELECT	10uF	20%	100V
C733	1-128-582-11	ELECT	10uF	20%	100V
C740	1-126-964-11	ELECT	10uF	20%	50V
C741	1-128-579-11	ELECT	2.2uF	20%	100V
C742	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C743	1-128-579-11	ELECT	2.2uF	20%	100V
C744	1-128-579-11	ELECT	2.2uF	20%	100V
C749	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C750	1-126-964-11	ELECT	10uF	20%	50V
C751	1-126-963-11	ELECT	4.7uF	20%	50V
C752	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C753	1-165-722-11	ELECT	100uF	20%	10V
C754	1-107-583-11	CERAMIC	3PF	0.25PF	500V
C755	1-102-233-00	CERAMIC	33PF	10%	500V
C756	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C757	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C760	1-126-947-11	ELECT	47uF	20%	35V
C761	1-136-157-00	FILM	0.022uF	5%	50V
C762	1-126-964-11	ELECT	10uF	20%	50V
C766	1-162-815-11	CERAMIC	47PF	5%	500V
C767	1-162-815-11	CERAMIC	47PF	5%	500V
C770	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C791	1-126-923-91	ELECT	220uF	20%	10V
C801	1-126-947-11	ELECT	47uF	20%	35V
C802	1-126-947-11	ELECT	47uF	20%	35V
C805	1-135-851-21	MYLAR	0.22uF		100V
C806	1-135-851-21	MYLAR	0.22uF		100V
C807	1-126-947-11	ELECT	47uF	20%	35V
C808	1-126-947-11	ELECT	47uF	20%	35V
C809	1-100-623-91	CERAMIC CHIP	0.1uF	10%	100V
C810	1-137-980-91	CERAMIC CHIP	0.47uF	10%	50V
C811	1-137-980-91	CERAMIC CHIP	0.47uF	10%	50V
C813	1-165-946-11	ELECT	6800uF	20%	71V
C814	1-165-946-11	ELECT	6800uF	20%	71V
C818	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C822	1-126-947-11	ELECT	47uF	20%	35V
C830	1-137-980-91	CERAMIC CHIP	0.47uF	10%	50V
C831	1-137-980-91	CERAMIC CHIP	0.47uF	10%	50V
C832	1-126-936-11	ELECT	3300uF	20%	16V
C842	1-165-732-31	ELECT	47uF	20%	25V

Ref. No.	Part No.	Description			Remark
C3022	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C3024	1-126-963-11	ELECT	4.7uF	20%	50V
C3025	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C3026	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C3027	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C3032	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C3034	1-126-963-11	ELECT	4.7uF	20%	50V
C3037	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
		< CAPACITOR >			
CC02	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
CC04	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
CC05	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
CC06	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
CC07	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
CC08	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
CC09	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
CC10	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
CC11	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
CC12	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
CC13	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
CC15	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
CC16	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
CC17	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
CC18	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
CC52	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
CC54	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
CC55	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
CC56	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
CC57	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
CC58	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
CC59	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
		< CONNECTOR >			
CN500	1-573-843-11	CONNECTOR, BOARD TO BOARD 11P			
CN506	1-779-978-11	PIN, CONNECTOR 3P			
CNP501	1-573-847-11	CONNECTOR, BOARD TO BOARD 15P			
* CNP503	1-564-506-11	PLUG, CONNECTOR 3P			
* CNP507	1-564-507-11	PLUG, CONNECTOR 4P			
* CNP801	1-564-242-00	PIN, CONNECTOR (3.96mm PITCH) 5P			
* CNP802	1-564-509-11	PLUG, CONNECTOR 6P			
* CNP912	1-564-506-11	PLUG, CONNECTOR 3P			
		< DIODE >			
D505	6-501-193-01	DIODE 1SS355WTE-17			
D529	6-501-193-01	DIODE 1SS355WTE-17			
D540	6-501-193-01	DIODE 1SS355WTE-17			
D560	6-501-193-01	DIODE 1SS355WTE-17			
D580	6-501-193-01	DIODE 1SS355WTE-17			
D585	6-501-193-01	DIODE 1SS355WTE-17			
D605	6-501-193-01	DIODE 1SS355WTE-17			
D610	6-501-193-01	DIODE 1SS355WTE-17			
D611	6-501-193-01	DIODE 1SS355WTE-17			
D640	6-501-193-01	DIODE 1SS355WTE-17			
D665	6-501-193-01	DIODE 1SS355WTE-17			
D680	6-501-193-01	DIODE 1SS355WTE-17			
D690	8-719-083-71	DIODE UDZSTE-1730B			
D691	6-501-193-01	DIODE 1SS355WTE-17			

MAIN

Ref. No.	Part No.	Description	Remark
D701	6-501-193-01	DIODE 1SS355WTE-17	
D705	6-501-193-01	DIODE 1SS355WTE-17	
D710	6-501-193-01	DIODE 1SS355WTE-17	
D721	6-501-193-01	DIODE 1SS355WTE-17	
D722	6-501-193-01	DIODE 1SS355WTE-17	
D729	6-501-193-01	DIODE 1SS355WTE-17	
D732	6-501-193-01	DIODE 1SS355WTE-17	
D733	6-501-193-01	DIODE 1SS355WTE-17	
D740	6-501-193-01	DIODE 1SS355WTE-17	
D749	6-501-193-01	DIODE 1SS355WTE-17	
D750	6-501-193-01	DIODE 1SS355WTE-17	
D765	6-501-193-01	DIODE 1SS355WTE-17	
D791	6-501-193-01	DIODE 1SS355WTE-17	
⚠ D801	8-719-083-85	DIODE UDZSTE-1722B	
⚠ D802	8-719-081-52	DIODE D5SBA20-4003	
⚠ D804	6-500-295-01	DIODE PTZ-TE25-5.6B	
⚠ D805	8-719-053-18	DIODE 1SR154-400TE-25	
⚠ D806	8-719-053-18	DIODE 1SR154-400TE-25	
⚠ D807	8-719-053-18	DIODE 1SR154-400TE-25	
⚠ D808	8-719-053-18	DIODE 1SR154-400TE-25	
D818	6-501-193-01	DIODE 1SS355WTE-17	
D841	6-500-696-01	DIODE UDZSTE-173.0B	
⚠ D896	8-719-053-18	DIODE 1SR154-400TE-25	
		< IC >	
IC401	6-707-362-01	IC BD3451KS	
IC501	6-700-943-01	IC uPC2581V-S	
IC601	6-700-943-01	IC uPC2581V-S	
IC691	8-759-710-97	IC NJM4565M-D	
⚠ IC701	6-700-943-01	IC uPC2581V-S	
⚠ IC801	8-759-071-48	IC TA7807S	
⚠ IC802	8-759-071-47	IC TA79007S	
IC3002	8-759-710-97	IC NJM4565M-D	
		< JACK >	
J309	1-770-377-21	JACK, PIN 1P (SUBWOOFER)	
J402	1-770-614-11	JACK, PIN 4P (VIDEO1)	
J403	1-770-614-11	JACK, PIN 4P (SAT,DVDS)	
J405	1-774-411-11	JACK, PIN 6P (SA-CD/CD/CD-R,TV)	
		< COIL >	
L501	1-420-872-52	COIL, AIR-CORE	
L551	1-420-872-52	COIL, AIR-CORE	
L601	1-420-872-52	COIL, AIR-CORE	
L651	1-420-872-52	COIL, AIR-CORE	
L701	1-420-872-52	COIL, AIR-CORE	
L751	1-420-872-52	COIL, AIR-CORE	
		< TRANSISTOR >	
Q501	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q502	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q505	8-729-216-31	TRANSISTOR 2SA1163-G	
Q506	8-729-216-31	TRANSISTOR 2SA1163-G	
Q535	8-729-216-31	TRANSISTOR 2SA1163-G	
Q536	8-729-216-31	TRANSISTOR 2SA1163-G	
Q540	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q560	8-729-120-28	TRANSISTOR 2SC1623-L5L6	

Ref. No.	Part No.	Description	Remark
Q571	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q572	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q580	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q601	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q602	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q605	8-729-216-31	TRANSISTOR 2SA1163-G	
Q606	8-729-216-31	TRANSISTOR 2SA1163-G	
Q610	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q611	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q612	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q640	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q651	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q652	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q655	8-729-216-31	TRANSISTOR 2SA1163-G	
Q656	8-729-216-31	TRANSISTOR 2SA1163-G	
Q680	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q691	8-729-281-53	TRANSISTOR 2SC1815-GR	
Q692	8-729-029-40	TRANSISTOR DTA124ESA	
Q701	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q702	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q705	8-729-216-31	TRANSISTOR 2SA1163-G	
Q706	8-729-216-31	TRANSISTOR 2SA1163-G	
Q710	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q722	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q723	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q725	8-729-216-31	TRANSISTOR 2SA1163-G	
Q740	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q750	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q751	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q752	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q755	8-729-216-31	TRANSISTOR 2SA1163-G	
Q756	8-729-216-31	TRANSISTOR 2SA1163-G	
Q790	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q793	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q795	8-729-216-31	TRANSISTOR 2SA1163-G	
⚠ Q801	8-729-140-97	TRANSISTOR 2SB734-T-34	
Q809	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
		< RESISTOR >	
R402	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R404	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R405	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R406	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R407	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R408	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R409	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R423	1-216-864-11	SHORT CHIP 0	
R428	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R429	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R452	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R454	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R455	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R456	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R457	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R458	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R459	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R468	1-216-845-11	METAL CHIP 100K 5% 1/10W	
R469	1-216-821-11	METAL CHIP 1K 5% 1/10W	

Ref. No.	Part No.	Description			Remark
R470	1-216-841-11	METAL CHIP	47K	5%	1/10W
R473	1-216-841-11	METAL CHIP	47K	5%	1/10W
R474	1-216-841-11	METAL CHIP	47K	5%	1/10W
R475	1-216-833-11	METAL CHIP	10K	5%	1/10W
R476	1-216-833-11	METAL CHIP	10K	5%	1/10W
R480	1-216-864-11	SHORT CHIP	0		
R481	1-216-864-11	SHORT CHIP	0		
R501	1-216-821-11	METAL CHIP	1K	5%	1/10W
R502	1-216-843-11	METAL CHIP	68K	5%	1/10W
R503	1-208-445-41	RES-CHIP	2.2K	2%	1/10W
R505	1-208-826-11	METAL CHIP	68K	0.5%	1/10W
R510	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R511	1-216-844-11	METAL CHIP	82K	5%	1/10W
R513	1-216-818-11	METAL CHIP	560	5%	1/10W
⚠R514	1-249-399-11	CARBON	33	5%	1/4W F
⚠R515	1-249-399-11	CARBON	33	5%	1/4W F
⚠R516	1-234-182-11	ENCAPSULATED COMPONENT			
⚠R517	1-249-393-11	CARBON	10	5%	1/4W F
R518	1-249-389-11	CARBON	4.7	5%	1/4W F
R520	1-216-214-00	RES-CHIP	4.7K	2%	1/8W
R521	1-240-855-91	CARBON	6.2K	5%	1/4W F
R522	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R523	1-216-841-11	METAL CHIP	47K	5%	1/10W
R524	1-216-835-11	METAL CHIP	15K	5%	1/10W
R525	1-216-843-11	METAL CHIP	68K	5%	1/10W
R526	1-234-182-11	ENCAPSULATED COMPONENT			
R529	1-216-833-11	METAL CHIP	10K	5%	1/10W
R530	1-216-214-00	RES-CHIP	4.7K	2%	1/8W
R531	1-240-855-91	CARBON	6.2K	5%	1/4W F
R532	1-216-833-11	METAL CHIP	10K	5%	1/10W
R533	1-216-841-11	METAL CHIP	47K	5%	1/10W
R534	1-216-835-11	METAL CHIP	15K	5%	1/10W
R535	1-216-843-11	METAL CHIP	68K	5%	1/10W
R537	1-249-393-11	CARBON	10	5%	1/4W F
R539	1-216-845-11	METAL CHIP	100K	5%	1/10W
R540	1-216-837-11	METAL CHIP	22K	5%	1/10W
R546	1-216-835-11	METAL CHIP	15K	5%	1/10W
R553	1-208-445-41	RES-CHIP	2.2K	2%	1/10W
R554	1-208-826-11	METAL CHIP	68K	0.5%	1/10W
R555	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R556	1-216-841-11	METAL CHIP	47K	5%	1/10W
R557	1-216-835-11	METAL CHIP	15K	5%	1/10W
R561	1-216-821-11	METAL CHIP	1K	5%	1/10W
R562	1-216-843-11	METAL CHIP	68K	5%	1/10W
R568	1-249-389-11	CARBON	4.7	5%	1/4W F
R570	1-208-445-41	RES-CHIP	2.2K	2%	1/10W
R571	1-216-844-11	METAL CHIP	82K	5%	1/10W
R572	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R573	1-216-841-11	METAL CHIP	47K	5%	1/10W
R574	1-249-399-11	CARBON	33	5%	1/4W F
R575	1-249-399-11	CARBON	33	5%	1/4W F
R576	1-216-818-11	METAL CHIP	560	5%	1/10W
R580	1-216-837-11	METAL CHIP	22K	5%	1/10W
R585	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R586	1-216-841-11	METAL CHIP	47K	5%	1/10W
R587	1-216-835-11	METAL CHIP	15K	5%	1/10W
R588	1-216-835-11	METAL CHIP	15K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R601	1-216-821-11	METAL CHIP	1K	5%	1/10W
R602	1-216-843-11	METAL CHIP	68K	5%	1/10W
R603	1-208-445-41	RES-CHIP	2.2K	2%	1/10W
R604	1-208-826-11	METAL CHIP	68K	0.5%	1/10W
R610	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R611	1-216-844-11	METAL CHIP	82K	5%	1/10W
R613	1-216-818-11	METAL CHIP	560	5%	1/10W
⚠R614	1-249-399-11	CARBON	33	5%	1/4W F
⚠R615	1-249-399-11	CARBON	33	5%	1/4W F
⚠R616	1-234-182-11	ENCAPSULATED COMPONENT			
⚠R617	1-249-393-11	CARBON	10	5%	1/4W F
⚠R618	1-249-389-11	CARBON	4.7	5%	1/4W F
R620	1-216-214-00	RES-CHIP	4.7K	2%	1/8W
R621	1-240-855-91	CARBON	6.2K	5%	1/4W
R622	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R623	1-216-841-11	METAL CHIP	47K	5%	1/10W
R624	1-216-835-11	METAL CHIP	15K	5%	1/10W
R625	1-216-843-11	METAL CHIP	68K	5%	1/10W
R631	1-216-821-11	METAL CHIP	1K	5%	1/10W
R632	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R633	1-216-821-11	METAL CHIP	1K	5%	1/10W
⚠R634	1-249-404-00	CARBON	82	5%	1/4W F
⚠R635	1-249-404-00	CARBON	82	5%	1/4W F
R638	1-216-843-11	METAL CHIP	68K	5%	1/10W
R640	1-216-837-11	METAL CHIP	22K	5%	1/10W
R648	1-216-835-11	METAL CHIP	15K	5%	1/10W
R651	1-216-821-11	METAL CHIP	1K	5%	1/10W
R652	1-216-843-11	METAL CHIP	68K	5%	1/10W
R653	1-208-445-41	RES-CHIP	2.2K	2%	1/10W
R654	1-208-826-11	METAL CHIP	68K	0.5%	1/10W
R655	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R656	1-216-841-11	METAL CHIP	47K	5%	1/10W
R657	1-216-835-11	METAL CHIP	15K	5%	1/10W
R660	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R661	1-216-844-11	METAL CHIP	82K	5%	1/10W
R663	1-216-818-11	METAL CHIP	560	5%	1/10W
⚠R664	1-249-399-11	CARBON	33	5%	1/4W F
⚠R665	1-249-399-11	CARBON	33	5%	1/4W F
⚠R666	1-234-182-11	ENCAPSULATED COMPONENT			
⚠R667	1-249-393-11	CARBON	10	5%	1/4W F
⚠R668	1-249-389-11	CARBON	4.7	5%	1/4W F
R669	1-216-214-00	RES-CHIP	4.7K	2%	1/8W
R671	1-240-855-91	CARBON	6.2K	5%	1/4W F
R672	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R673	1-216-841-11	METAL CHIP	47K	5%	1/10W
R674	1-216-835-11	METAL CHIP	15K	5%	1/10W
R675	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R676	1-216-841-11	METAL CHIP	47K	5%	1/10W
R677	1-216-835-11	METAL CHIP	15K	5%	1/10W
R680	1-216-837-11	METAL CHIP	22K	5%	1/10W
R681	1-216-835-11	METAL CHIP	15K	5%	1/10W
R690	1-216-849-11	METAL CHIP	220K	5%	1/10W
⚠R691	1-215-886-11	METAL OXIDE	100	5%	2W F
R692	1-215-889-00	METAL OXIDE	330	5%	2W F
R693	1-216-833-11	METAL CHIP	10K	5%	1/10W
R694	1-216-833-11	METAL CHIP	10K	5%	1/10W
R695	1-216-833-11	METAL CHIP	10K	5%	1/10W
R696	1-216-841-11	METAL CHIP	47K	5%	1/10W

MAIN

Ref. No.	Part No.	Description			Remark
R698	1-216-833-11	METAL CHIP	10K	5%	1/10W
R699	1-216-853-11	METAL CHIP	470K	5%	1/10W
R701	1-216-821-11	METAL CHIP	1K	5%	1/10W
R702	1-216-843-11	METAL CHIP	68K	5%	1/10W
R703	1-208-445-41	RES-CHIP	2.2K	2%	1/10W
R704	1-208-826-11	METAL CHIP	68K	0.5%	1/10W
R710	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R711	1-216-844-11	METAL CHIP	82K	5%	1/10W
R713	1-216-818-11	METAL CHIP	560	5%	1/10W
⚠R714	1-249-399-11	CARBON	33	5%	1/4W F
⚠R715	1-249-399-11	CARBON	33	5%	1/4W F
⚠R716	1-234-182-11	ENCAPSULATED COMPONENT			
⚠R717	1-249-393-11	CARBON	10	5%	1/4W F
⚠R718	1-249-389-11	CARBON	4.7	5%	1/4W F
R719	1-216-214-00	RES-CHIP	4.7K	2%	1/8W
R721	1-240-855-91	CARBON	6.2K	5%	1/4W F
R722	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R723	1-216-841-11	METAL CHIP	47K	5%	1/10W
R724	1-216-835-11	METAL CHIP	15K	5%	1/10W
R725	1-216-843-11	METAL CHIP	68K	5%	1/10W
R729	1-216-833-11	METAL CHIP	10K	5%	1/10W
R731	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
⚠R732	1-249-381-11	CARBON	1	5%	1/4W F
⚠R733	1-249-381-11	CARBON	1	5%	1/4W F
⚠R734	1-249-404-00	CARBON	82	5%	1/4W F
R735	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R736	1-216-821-11	METAL CHIP	1K	5%	1/10W
R737	1-216-840-11	METAL CHIP	39K	5%	1/10W
⚠R738	1-249-404-00	CARBON	82	5%	1/4W F
R739	1-216-845-11	METAL CHIP	100K	5%	1/10W
R740	1-216-837-11	METAL CHIP	22K	5%	1/10W
R741	1-216-230-00	RES-CHIP	22K	2%	1/8W
R743	1-216-230-00	RES-CHIP	22K	2%	1/8W
R744	1-216-230-00	RES-CHIP	22K	2%	1/8W
R745	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R746	1-216-841-11	METAL CHIP	47K	5%	1/10W
R747	1-216-835-11	METAL CHIP	15K	5%	1/10W
R748	1-216-835-11	METAL CHIP	15K	5%	1/10W
R749	1-216-833-11	METAL CHIP	10K	5%	1/10W
R750	1-216-837-11	METAL CHIP	22K	5%	1/10W
R751	1-216-821-11	METAL CHIP	1K	5%	1/10W
R752	1-216-843-11	METAL CHIP	68K	5%	1/10W
R753	1-208-445-41	RES-CHIP	2.2K	2%	1/10W
R754	1-208-826-11	METAL CHIP	68K	0.5%	1/10W
R755	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R756	1-216-841-11	METAL CHIP	47K	5%	1/10W
R757	1-216-835-11	METAL CHIP	15K	5%	1/10W
R758	1-216-835-11	METAL CHIP	15K	5%	1/10W
R759	1-216-845-11	METAL CHIP	100K	5%	1/10W
R760	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R761	1-216-844-11	METAL CHIP	82K	5%	1/10W
R763	1-216-818-11	METAL CHIP	560	5%	1/10W
⚠R764	1-249-399-11	CARBON	33	5%	1/4W F
⚠R765	1-249-399-11	CARBON	33	5%	1/4W F
⚠R766	1-234-182-11	ENCAPSULATED COMPONENT			
⚠R767	1-249-393-11	CARBON	10	5%	1/4W F
⚠R768	1-249-389-11	CARBON	4.7	5%	1/4W F

Ref. No.	Part No.	Description			Remark
R769	1-216-214-00	RES-CHIP	4.7K	2%	1/8W
R770	1-216-845-11	METAL CHIP	100K	5%	1/10W
R771	1-240-855-91	CARBON	6.2K	5%	1/4W F
R772	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R773	1-216-841-11	METAL CHIP	47K	5%	1/10W
R775	1-216-843-11	METAL CHIP	68K	5%	1/10W
R778	1-216-835-11	METAL CHIP	15K	5%	1/10W
R780	1-216-833-11	METAL CHIP	10K	5%	1/10W
R790	1-216-845-11	METAL CHIP	100K	5%	1/10W
R791	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R792	1-215-868-00	METAL OXIDE	680	5%	1W F
R793	1-249-404-00	CARBON	82	5%	1/4W F
R794	1-215-868-00	METAL OXIDE	680	5%	1W F
⚠R802	1-249-409-11	CARBON	220	5%	1/4W F
⚠R803	1-249-389-11	CARBON	4.7	5%	1/4W F
R804	1-216-833-11	METAL CHIP	10K	5%	1/10W
R806	1-216-837-11	METAL CHIP	22K	5%	1/10W
R824	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
⚠R830	1-249-404-00	CARBON	82	5%	1/4W F
R840	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R843	1-216-864-11	SHORT CHIP	0		
R844	1-216-837-11	METAL CHIP	22K	5%	1/10W
⚠R910	1-240-877-11	FUSIBLE	0.15	5%	1/2W F
R3010	1-216-841-11	METAL CHIP	47K	5%	1/10W
R3011	1-218-887-11	METAL CHIP	47K	0.5%	1/10W
R3012	1-218-887-11	METAL CHIP	47K	0.5%	1/10W
R3013	1-216-841-11	METAL CHIP	47K	5%	1/10W
R3020	1-216-841-11	METAL CHIP	47K	5%	1/10W
R3021	1-218-887-11	METAL CHIP	47K	0.5%	1/10W
R3022	1-218-887-11	METAL CHIP	47K	0.5%	1/10W
R3023	1-216-841-11	METAL CHIP	47K	5%	1/10W
		< RESISTOR >			
RR11	1-249-393-11	CARBON	10	5%	1/4W F
RR12	1-249-393-11	CARBON	10	5%	1/4W F
RR13	1-249-393-11	CARBON	10	5%	1/4W F
RR14	1-249-393-11	CARBON	10	5%	1/4W F
RR15	1-249-393-11	CARBON	10	5%	1/4W F
RR16	1-249-393-11	CARBON	10	5%	1/4W F
RR17	1-249-393-11	CARBON	10	5%	1/4W F
RR18	1-249-393-11	CARBON	10	5%	1/4W F
		< RELAY >			
RY560	1-755-267-11	RELAY			
RY601	1-755-170-11	RELAY (12V)			
RY610	1-755-170-11	RELAY (12V)			
RY701	1-755-170-11	RELAY (12V)			
RY710	1-755-170-11	RELAY (12V)			
RY791	1-755-170-11	RELAY (12V)			
RY801	1-755-013-11	RELAY			
		< TERMINAL >			
TB001	1-780-449-11	BANANA-PUSH TERMINAL BOARD (8P) (FRONT A,SURROUND)			
		< TERMINAL >			
TM602	1-537-240-11	TERMINAL BOARD (CHECKER PIN) (FRONT B)			

Ref. No.	Part No.	Description			Remark
TM603	1-780-451-11	BANANA-PUSH TERMINAL BOARD (4P) (SURROUND BACK,CENTER)			
**********					
		POWER KEY BOARD **********			
		< CONNECTOR >			
* CN103	1-691-670-11	CONNECTOR, BOARD TO BOARD 5P			
		< RESISTOR >			
R111	1-249-415-11	CARBON	680	5%	1/4W
		< SWITCH >			
S100	1-771-410-21	SWITCH, TACTILE (I/⏻)			
S115	1-771-410-21	SWITCH, TACTILE (SPEAKERS)			
**********					
		STANDBY BOARD **********			
	1-533-217-41	HOLDER, FUSE			
		< CAPACITOR >			
C913	1-127-888-11	CERAMIC	0.1uF	10%	50V
C914	1-127-888-11	CERAMIC	0.1uF	10%	50V
C915	1-126-943-11	ELECT	2200uF	20%	25V
C916	1-126-942-61	ELECT	1000uF	20%	25V
C920	1-127-888-11	CERAMIC	0.1uF	10%	50V
C921	1-127-888-11	CERAMIC	0.1uF	10%	50V
C924	1-126-960-11	ELECT	1uF	20%	50V
C950	1-126-936-11	ELECT	3300uF	20%	16V
		< CONNECTOR >			
* CNP802	1-564-509-11	PLUG, CONNECTOR 6P			
* CNP804	1-564-506-11	PLUG, CONNECTOR 3P			
* CNP805	1-564-506-11	PLUG, CONNECTOR 3P			
CNP901	1-564-321-00	PIN, CONNECTOR (3.96mm PITCH) 2P			
* CNP902	1-565-792-11	PIN, CONNECTOR (3.96mm PITCH) 2P			
* CNP903	1-564-508-11	PLUG, CONNECTOR 5P			
		< DIODE >			
D901	8-719-991-33	DIODE 1SS133T-77			
D910	6-500-522-11	DIODE 10EDB40-TA2B5			
D911	6-500-522-11	DIODE 10EDB40-TA2B5			
D912	6-500-522-11	DIODE 10EDB40-TA2B5			
D913	6-500-522-11	DIODE 10EDB40-TA2B5			
D914	8-719-991-33	DIODE 1SS133T-77			
D915	8-719-991-33	DIODE 1SS133T-77			
⚠D920	6-500-522-11	DIODE 10EDB40-TA2B5			
⚠D921	6-500-522-11	DIODE 10EDB40-TA2B5			
⚠D922	6-500-522-11	DIODE 10EDB40-TA2B5			
⚠D923	6-500-522-11	DIODE 10EDB40-TA2B5			
		< TRANSISTOR >			
Q901	8-729-119-78	TRANSISTOR 2SC2785-HFE			
Q921	8-729-119-78	TRANSISTOR 2SC2785-HFE			

Ref. No.	Part No.	Description			Remark
		< RESISTOR >			
⚠R810	1-243-634-91	FUSIBLE	0.22	5%	1/2W
⚠R811	1-243-634-91	FUSIBLE	0.22	5%	1/2W
R902	1-247-871-91	CARBON	47K	5%	1/4W
R903	1-249-421-11	CARBON	2.2K	5%	1/4W
⚠R904	1-249-381-11	CARBON	1	5%	1/4W F
R921	1-247-871-91	CARBON	47K	5%	1/4W
R922	1-247-863-91	CARBON	22K	5%	1/4W
R923	1-249-429-11	CARBON	10K	5%	1/4W
		< RELAY >			
⚠RY901	1-755-541-11	RELAY			
		< TRANSFORMER >			
⚠T902	1-443-517-11	POWER TRANSFORMER			
**********					
		VIDEO BOARD **********			
		< CAPACITOR >			
C206	1-126-964-11	ELECT	10uF	20%	50V
C207	1-126-964-11	ELECT	10uF	20%	50V
C208	1-126-964-11	ELECT	10uF	20%	50V
C209	1-126-964-11	ELECT	10uF	20%	50V
C210	1-126-947-11	ELECT	47uF	20%	35V
C213	1-126-947-11	ELECT	47uF	20%	35V
C214	1-127-888-11	CERAMIC	0.1uF	10%	50V
C215	1-127-888-11	CERAMIC	0.1uF	10%	50V
C220	1-126-947-11	ELECT	47uF	20%	35V
C221	1-126-947-11	ELECT	47uF	20%	35V
C223	1-135-799-11	CERAMIC	0.47uF		50V
C224	1-135-799-11	CERAMIC	0.47uF		50V
C308	1-126-964-11	ELECT	10uF	20%	50V
C309	1-126-964-11	ELECT	10uF	20%	50V
C310	1-126-964-11	ELECT	10uF	20%	50V
C311	1-126-964-11	ELECT	10uF	20%	50V
C312	1-126-964-11	ELECT	10uF	20%	50V
C313	1-126-964-11	ELECT	10uF	20%	50V
C314	1-126-964-11	ELECT	10uF	20%	50V
C315	1-126-964-11	ELECT	10uF	20%	50V
C316	1-126-964-11	ELECT	10uF	20%	50V
C330	1-127-888-11	CERAMIC	0.1uF	10%	50V
C331	1-127-888-11	CERAMIC	0.1uF	10%	50V
C337	1-126-947-11	ELECT	47uF	20%	35V
C338	1-126-947-11	ELECT	47uF	20%	35V
C341	1-127-888-11	CERAMIC	0.1uF	10%	50V
		< CONNECTOR >			
CNP202	1-564-705-11	PIN, CONNECTOR (SMALL TYPE) 3P			
* CNP203	1-564-507-11	PLUG, CONNECTOR 4P			
CNS207	1-784-774-11	CONNECTOR, FFC 13P			
		< DIODE >			
D203	8-719-991-33	DIODE 1SS133T-77			
D204	8-719-991-33	DIODE 1SS133T-77			

VIDEO **VIDEO3**

Ref. No.	Part No.	Description			Remark
		< IC >			
IC203	6-701-890-01	IC NJM2595D			
IC304	6-707-363-01	IC NJM2586AL			
⚠IC804	8-759-245-79	IC TA79005S			
⚠IC807	8-759-231-53	IC TA7805S			
		< JACK >			
J200	1-794-978-11	JACK, PIN 3P (DVD,VIDEO 1,SAT)			
J201	1-815-043-11	JACK, PIN 2P (VIDEO 1,MONITOR)			
J301	1-816-592-11	JACK, PIN 9P (COMPONENT VIDEO)			
J302	1-815-360-11	JACK, PIN 3P (MONITOR OUT)			
		< RESISTOR >			
R200	1-247-804-11	CARBON	75	5%	1/4W
R201	1-247-804-11	CARBON	75	5%	1/4W
R218	1-247-804-11	CARBON	75	5%	1/4W
R219	1-247-804-11	CARBON	75	5%	1/4W
R220	1-247-804-11	CARBON	75	5%	1/4W
R221	1-247-804-11	CARBON	75	5%	1/4W
R301	1-247-804-11	CARBON	75	5%	1/4W
R302	1-247-804-11	CARBON	75	5%	1/4W
R303	1-247-804-11	CARBON	75	5%	1/4W
R304	1-247-804-11	CARBON	75	5%	1/4W
R305	1-247-804-11	CARBON	75	5%	1/4W
R306	1-247-804-11	CARBON	75	5%	1/4W
R307	1-247-804-11	CARBON	75	5%	1/4W
R308	1-247-804-11	CARBON	75	5%	1/4W
R309	1-247-804-11	CARBON	75	5%	1/4W
R310	1-247-804-11	CARBON	75	5%	1/4W
R311	1-247-804-11	CARBON	75	5%	1/4W
R312	1-247-804-11	CARBON	75	5%	1/4W
**********					
		VIDEO3 BOARD **********			
		< CAPACITOR >			
C293	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C294	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C298	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C299	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
		< CONNECTOR >			
CN201	1-564-721-11	PIN, CONNECTOR (SMALL TYPE) 5P			
* CN202	1-690-880-31	LEAD (WITH CONNECTOR)			
		< JACK >			
J298	1-819-187-11	PIN JACK 3P (VIDEO3 IN / PORTABLE AV IN)			
		< RESISTOR >			
R298	1-216-821-11	METAL CHIP	1K	5%	1/10W
R299	1-216-821-11	METAL CHIP	1K	5%	1/10W
**********					
		MISCELLANEOUS **********			
8	1-829-004-51	WIRE (FLAT TYPE) (19 CORE)			
⚠57	1-777-071-83	CORD, POWER			
59	1-828-973-11	WIRE (FLAT TYPE) (13 CORE)			
60	1-828-963-11	WIRE (FLAT TYPE) (11 CORE)			
⚠F4001	1-532-465-33	FUSE(T3.15AL/250V)			
⚠F4002	1-532-465-33	FUSE(T3.15AL/250V)			
⚠F901	1-532-464-33	FUSE(T2.5AL/250V)			
⚠Q503	6-702-390-01	IC MN2488-OPY-MK			
⚠Q504	6-702-391-01	IC MP1620-OPY-MK			
⚠Q533	6-702-390-01	IC MN2488-OPY-MK			
⚠Q534	6-702-391-01	IC MP1620-OPY-MK			
⚠Q603	6-702-390-01	IC MN2488-OPY-MK			
⚠Q604	6-702-391-01	IC MP1620-OPY-MK			
⚠Q653	6-702-390-01	IC MN2488-OPY-MK			
⚠Q654	6-702-391-01	IC MP1620-OPY-MK			
⚠Q703	6-702-390-01	IC MN2488-OPY-MK			
⚠Q704	6-702-391-01	IC MP1620-OPY-MK			
⚠Q753	6-702-390-01	IC MN2488-OPY-MK			
⚠Q754	6-702-391-01	IC MP1620-OPY-MK			
⚠T901	1-443-525-11	POWER TRANSFORMER			
TN1	1-693-737-11	TUNER (FM/AM)			

MEMO

REVISION HISTORY

Clicking the version allows you to jump to the revised page.
Also, clicking the version at the upper right on the revised page allows you to jump to the next revised page.

Ver.	Date	Description of Revision
1.0	2007.01	New